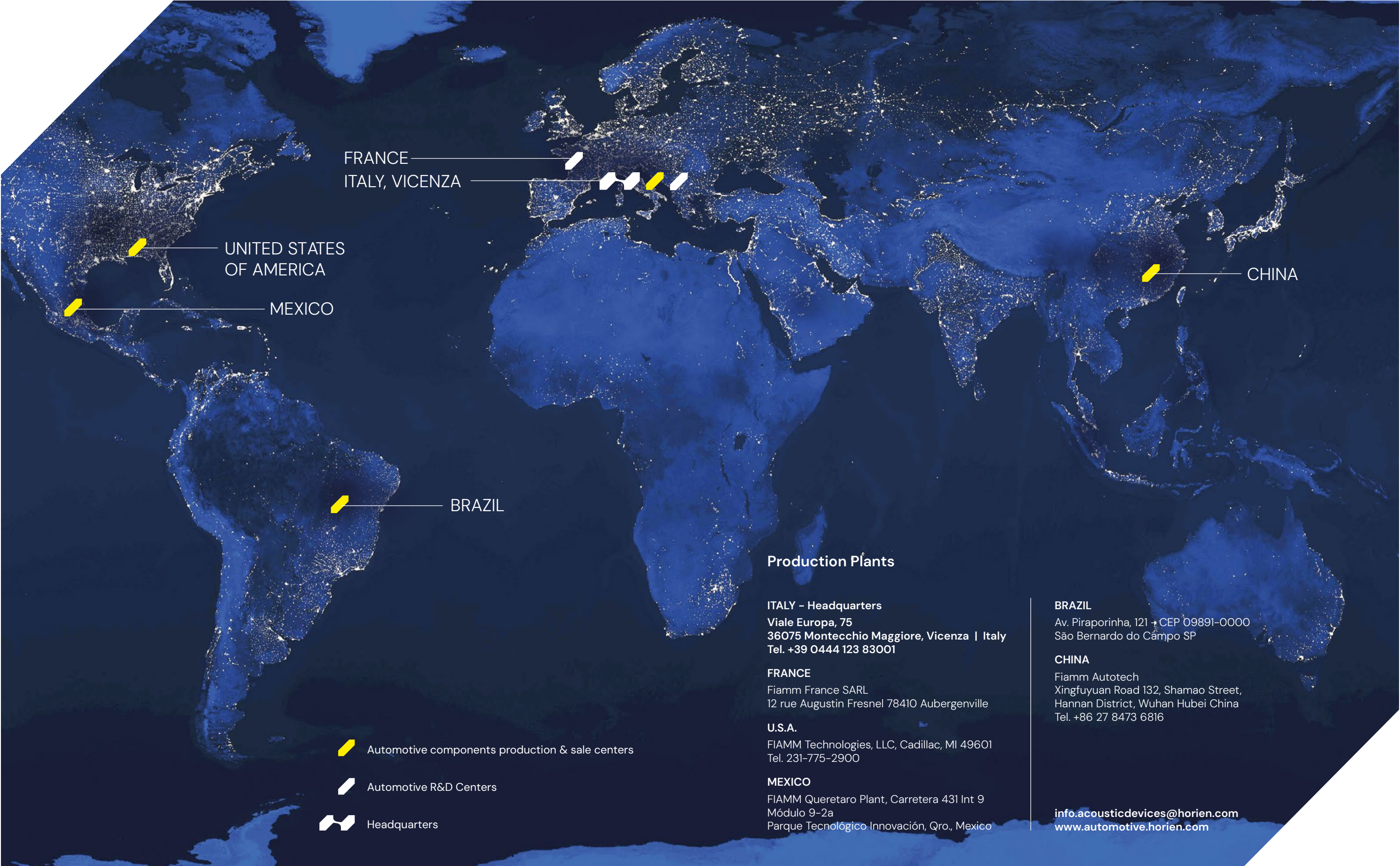




# FIAMM Sound & Connectivity

## Aftermarket Product Catalog

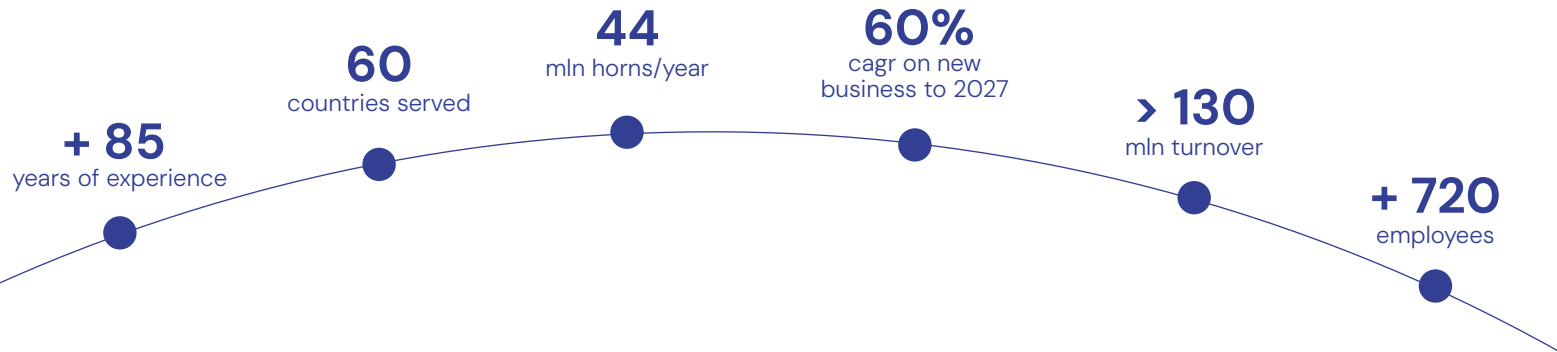


# Who We Are

Since 1950 leading, developing and manufacturing sound & connectivity solutions for the global automotive market.

We are a global leader in automotive components: under the FIAMM brand, HORIEN Automotive Solutions has been at the forefront of the automotive sector for decades, leading the horns manufacturer sector.

Today, fostering safe, smart & connected drive, produces advanced acoustic systems solutions and antennas, specializing in solutions for both traditional and electric vehicles.



# Our History



- 1938** ● Elettra 1938 founded by Dolcetta Family.
- 1950** ● FIAMM Group is the battery of the Ferrari that won the Mille Miglia in 1950. The first original equipment supply to a major brand was with the Innocenti Lambretta.
- 1980** ● FIAMM Group goes global and kicks off the sale of its products in North America and Brazil.
- 2010** ● FIAMM Group goes east and kicks off the sale of its products in China.
- 2017** ● The company is redefining its identity by focusing on high-potential projects, enhancing its offerings in safer, advanced, and sustainable mobility products, such as acoustic signals, antennas, and solutions for electric mobility.

- 1942** ● FIAMM Group starts producing lead acid batteries and components.
- 1960-1990** ● FIAMM Group becomes a World Wide leader in automotive components production of lead acid batteries and car components.
- 1990** ● FIAMM Group acquires the MAG and Klaxon brands, consolidating its position in the vehicle horn sector.
- 2016** ● Start production of AVAS, adding electronic & software capabilities.
- 2018** ● Open new production line for AM80SX in MEXICO to supply the local market following the trend of automotive car industry.



## 2024

FIAMM Sound & Connectivity has joined the HORIEN Group, embracing the corporate rebranding and evolving its identity while maintaining its long-standing leadership in automotive acoustic components. This transformation marks a strategic step forward, as FIAMM is pioneering next-generation solutions, expanding its electronic capabilities & expertise, and securing new business & contracts for AVAS, H-AVAS, and RTM systems, confirming its role at the forefront of innovation in both electric and hybrid vehicle technologies.

## 2025

HORIEN starts in house speakers in the WHUAN, China plant.

# Product Overview

|    |                                                                                                                                                                                                                                                                                                            |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EN | FIAMM horns are produced in the same production plants where also original equipment horns are manufactured, using the same technology, manpower, equipment and control systems approved by car manufacturers.                                                                                             |
| IT | Gli avvisatori acustici FIAMM sono prodotti negli stessi stabilimenti produttivi dove vengono realizzati anche gli avvisatori di primo impianto, utilizzando la medesima tecnologia, manodopera, impianti e sistemi di controllo approvati dai costruttori di autoveicoli.                                 |
| ES | Las bocinas FIAMM se producen en las mismas plantas de producción donde se realizan también los avisadores acústicos de equipo original, utilizando la misma tecnología, mano de obra, maquinaria y sistemas de control aprobados por los fabricantes de automóviles.                                      |
| FR | Les avertisseurs acoustiques FIAMM sont fabriqués dans les mêmes usines de production où se produisent aussi les avertisseurs pour le marché de l'équipement d'origine, en utilisant les mêmes technologie, main d'œuvre, équipements et systèmes de contrôle approuvés par les constructeurs automobiles. |
| DE | Die FIAMM akustischen Signaleinrichtungen werden in denselben Produktionsstätten hergestellt, wo auch die Hupen für den Erstausrüstungsmarkt gefertigt werden. Dieselben von den Fahrzeugherstellern genehmigten Technologie, Arbeitskräfte, Maschinen und Kontrollsysteme werden benutzt.                 |
| AR | تم إنتاج منبهات الصوت FIAMM في نفس المنشآت الإنتاجية التي تنتج فيها منبهات الجهاز الأول، وباستخدام نفس التكنولوجيا والعمالة والنظم والتحكم التي تم اعتمادها من صانعي السيارات.                                                                                                                             |

The highest standards as a guarantee of our quality & reliability:  
the original equipment best choice

| Automotive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Truck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Alfa Romeo</li> <li>Aston Martin</li> <li>Audi</li> <li>BMW</li> <li>BYD</li> <li>Chrysler</li> <li>Citroën</li> <li>Ferrari</li> <li>FIAT (Stellantis)</li> <li>Ford</li> <li>GM</li> <li>Hyundai</li> <li>Jaguar</li> <li>Lancia</li> <li>Land Rover</li> <li>Maserati</li> <li>Mercedes</li> <li>MINI (BMW)</li> <li>Mitsubishi</li> <li>Nissan</li> <li>Opel</li> <li>Peugeot</li> <li>SEAT</li> <li>Škoda</li> <li>Vauxall</li> <li>Volvo</li> <li>VW</li> <li>Xiaomi</li> </ul> | <ul style="list-style-type: none"> <li>Blue Bird</li> <li>Caterpillar</li> <li>Chery</li> <li>Chrysler</li> <li>Cnh</li> <li>Crown (Industrial Trucks)</li> <li>Daimler Truck</li> <li>Dongfeng</li> <li>Faw</li> <li>Freightliner Truck</li> <li>Geely</li> <li>Hyundai Truck</li> <li>Iveco</li> <li>Jeep</li> <li>Kia</li> <li>MAN</li> <li>Man Truck</li> <li>Mack Trucks</li> <li>Nacco (Industrial Trucks)</li> <li>Paccar</li> <li>Porsche</li> <li>Renault Truck</li> <li>Scania</li> <li>Volvo Truck</li> </ul> |

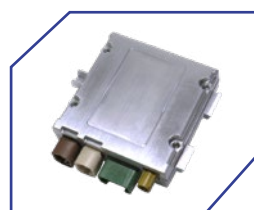
## Product Lines

### ANTENNAS BROADCAST & CONNECTIVITY



- Broad range of antennas for all frequency bands
- Customizable solutions

### RTM REMOTE TUNER MODULE



- Compact Remote Tuner Modules with integrated amplifiers and scalable radio configuration
- 5 years R&D investments

### SAFETY TODAY AVAS



- AVAS (Acoustic Vehicle Alerting System) are currently produced in a wide range by the company, depending on acoustic performance and communication type requested by the costumers;
- The AVAS system is mandatory for all new hybrid and electric vehicles since July 2019 in EU.

### SAFETY TOMORROW H-AVAS



- H-AVAS, the latest innovation in the automotive sound components: it is a single product that can combine the functionality of AVAS and HORNS;
- HORIEN AUTOMOTIVE SOLUTIONS is already working on implementing the new product on car lines and started has its own speaker product line.

### ELECTROMAGNETIC

The sound is produced through an electro-magnetic circuit that forces a membrane to vibrate at high frequency.

#### Horns



#### Discs



### AIR HORN

The sound is produced when compressed air passes through an acoustic trumpet.

#### Pneumatic

Solutions operating with the on-board air system of the vehicle.



#### Electropneumatic

Solutions equipped with a compressor and a set of trumpets.



### EMERGENCY SOLUTIONS

Acoustic warning systems for priority and emergency vehicles.

#### Electronic

Acoustic system for continuous service, composed by an electronic control unit and a set of loudspeakers.



#### Electropneumatic

Acoustic system composed by a compressor and a set of trumpets.



#### Pneumatic

Acoustic system composed of an electronic control unit and a set of trumpets.



### COSTUMIZED SOLUTIONS

#### AVAS



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E-Vehicles  
Last Release Innovations



# AVAS System

THE SOUND OF SILENCE

**EN** The AVAS is a device that makes a audible warning signal for hybrid and electric cars to improve the sound at low speed. From the 1st of July 2019 it is mandatory on all silent vehicles. FIAMM has been one of the first companies to introduce this device on the market and the AVAS is the result of years of experience on this segment.

**IT** L' AVAS è un dispositivo che emette un segnale di avvertimento acustico per veicoli elettrici e ibridi, con la principale funzione di aumentarne il livello sonoro alle basse velocità. Dal 1° luglio 2019 è obbligatorio su ogni veicolo silenzioso. FIAMM è stata una delle prime aziende a portarlo sul mercato, e l' AVAS è il frutto di anni di esperienza in questo segmento.

**ES** El AVAS es un dispositivo que emite una señal de advertencia audible para automóviles híbridos y eléctricos con la función principal de aumentar el nivel de sonido a bajas velocidades. Desde el 1 de julio de 2019 es obligatorio en todos los vehículos silenciosos. FIAMM ha sido una de las primeras empresas en introducir este dispositivo en el mercado y el AVAS es el resultado de años de experiencia en este segmento.

**FR** Le AVAS est un appareil qui émet un signal d'avertissement audible pour les voitures hybrides et électriques avec pour fonction principale d'augmenter le niveau sonore à basse vitesse. Depuis le 1er juillet 2019, il est obligatoire sur tous les véhicules silencieux. FIAMM a été l'une des premières entreprises à introduire cet appareil sur le marché et le AVAS est le résultat d'années d'expérience sur ce segment.

**DE** Das AVAS ist ein Gerät, das für Hybrid- und Elektroautos ein hörbares Warnsignal macht, mit der Hauptfunktion, den Schallpegel bei niedrigen Geschwindigkeiten zu erhöhen. Ab dem 1. Juli 2019 ist es für alle leisen Fahrzeuge obligatorisch. FIAMM hat dieses Gerät als eines der ersten Unternehmen auf den Markt gebracht und das AVAS ist das Ergebnis jahrelanger Erfahrung in diesem Segment.

**AR** يعد جهاز AVAS جهاز تنبيه صوتي للسيارات الكهربائية والهجينة، بوظيفة رئيسية تتمثل في زيادة مستوى الصوت عند السرعات المنخفضة. اعتباراً من أول يوليو 2019 أصبح ملزماً في أية سيارة صامتة. كانت فيام FIAMM هي أول شركة تطرحه في الأسواق، و AVAS هو ثمرة سنوات من الخبرة في هذا القطاع.



**AVAS System**  
Forward and reverse gear

- V

8V a 24V
- ⬇️⬆️

-40°C to +85°C
- 📏

96x96x81
- 🔌

<1A consumption
- 🖋️

~ 410g
- 🇪🇺

ECE/R10
- 🔊

IP6K9K e IPX7

| Tuning Suite Version    | Base Version | Expert Version |
|-------------------------|--------------|----------------|
| Forward sound selection | -            | ✓              |
| Forward sound volume    | ✓            | ✓              |
| Backward sound volume   | ✓            | ✓              |
| Sound simulation on PC  | -            | ✓              |
| Speed to pitch tune     | -            | ✓              |
| Speed to volume tune    | -            | ✓              |
| Equalization            | -            | ✓              |
| Fade in and out values  | -            | ✓              |

# H-AVAS

THE SOUND OF SILENCE

**EN** The innovative acoustic warning system that "gives voice to Hybrid and e-vehicles". A product with a dual function: combining a loudspeaker and a traditional horn to give electric vehicles a distinctive, recognizable presence on the road—no longer defined solely by the absence of engine noise.

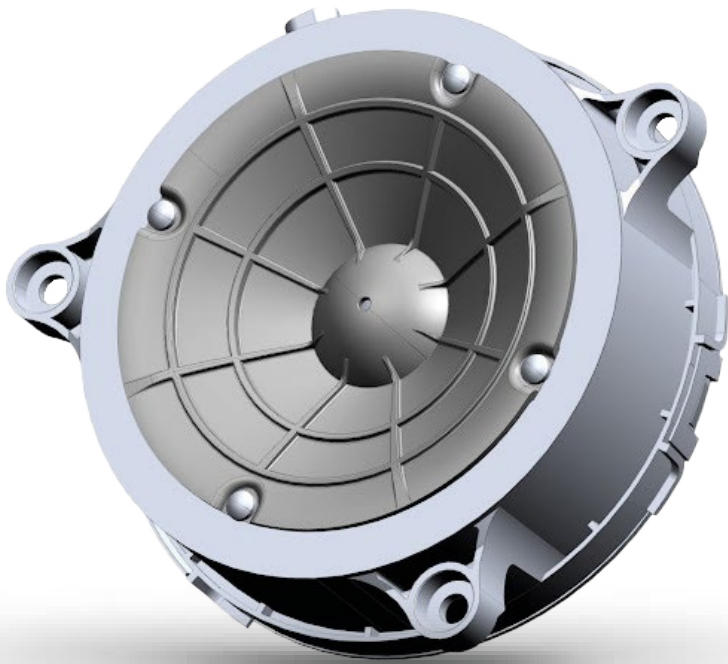
**IT** L'innovativo sistema di allarme acustico che "dà voce ai veicoli ibridi ed elettrici". Un prodotto con una doppia funzione: La combinazione di un altoparlante e di una tromba tradizionale per dare ai veicoli elettrici una presenza distintiva e riconoscibile sulla strada, non più definita unicamente dall'assenza di rumore del motore.

**ES** El innovador sistema de alerta acústica que "da voz a los vehículos híbridos y eléctricos". Un producto con una doble función: la combinación de un altavoz y una bocina tradicional para dar a los vehículos eléctricos una presencia distintiva y reconocible en la carretera, que ya no se define únicamente por la ausencia de ruido del motor.

**FR** Le système innovant d'avertissement acoustique qui "donne la parole aux véhicules hybrides et électriques". Un produit à double fonction: la combinaison d'un haut-parleur et d'une averse traditionnelle pour donner aux véhicules électriques une présence distinctive et reconnaissable sur la route, qui ne se définit plus uniquement par l'absence de bruit du moteur.

**DE** Das innovative akustische Warnsystem, das "Hybrid- und E-Fahrzeugen Stimme gibt". Ein Produkt mit einer Doppelfunktion: die Kombination aus Lautsprecher und traditioneller Hupe verleiht dem Elektrofahrzeug eine unverwechselbare, erkennbare Präsenz auf der Straße, die nicht mehr nur durch das Fehlen von Motorgeräuschen definiert ist.

**AR** روطت لـ "ةئئابرهكلاو ةئيجهل تابتكرملل توصلا حنم ي" يذل ركتبملا يتوصل ريذحتلا ماطن  
أروض ةئئابرهكلا تابتكرملل حنم ل يديلقتلا قوبلاو توصلا ربكم ني ب عم جي :ةجودزم ةفيظو وذ جت نم  
كرحمل اءاضوض بابيغب طقف آددم دعي مل — قيرطلا لىل ع أفورعمو أزي مم

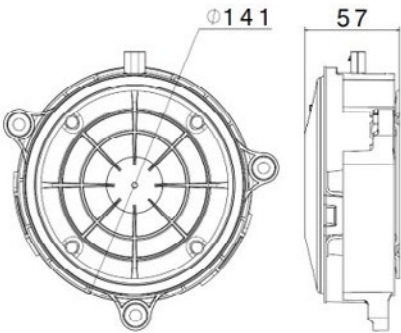
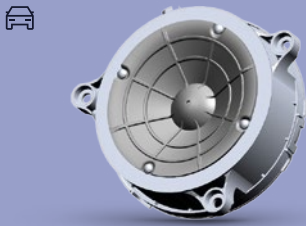


## Homologation

**At component level:**  
ECE R10  
ECE R28

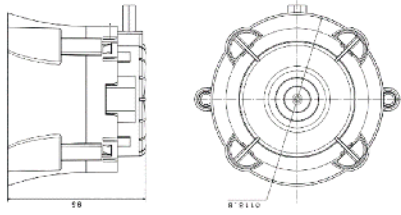
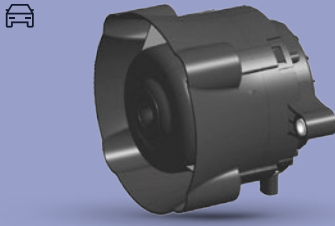
**At vehicle level:**  
easily compliant  
with the following  
homologations  
ECE R28  
FMVSS 141 (US)  
ECE R138 (EU)  
GB/T 37153-2018 (CN)

H-AVAS  
LOUDSPEAKER



|                                                |                                       |
|------------------------------------------------|---------------------------------------|
| TYPE                                           | Electrodynamic cone Loudspeaker       |
| DIMENSIONS                                     | 141 x 57 (mm) without fixations       |
| ENCLOSURE VOLUME                               | 0.4 L                                 |
| WEIGHT                                         | 300 g                                 |
| RATED POWER                                    | 25 W                                  |
| RATED INPUT VOLTAGE                            | 12.5 V PEAK (8.8 V)                   |
| NOMINAL IMPEDANCE                              | 2 Ohm                                 |
| DC RESISTANCE                                  | 2.8 Ohm                               |
| HORN'S SPL<br>*USING FIAMM HORN SOUNDS         | 109 ± 1 dB<br>*According ECE R28      |
| FREQUENCY RANGE                                | 160Hz ± 10 kHz                        |
| RESONANCE FREQUENCY                            | 250 Hz<br>*With enclosure volume 0.6L |
| SENSITIVITY (@1W/1M)<br>*ACCORDING IEC 60268-5 | 93 dB(A)                              |
| THD (@1W)                                      | <1%<br>*in the range 300Hz-10kHz      |
| VERSION                                        | Passive                               |
| LEVEL OF PROTECTION                            | IP6K7; IP6K9K                         |
| OPERATING TEMPERATURE                          | -40/+90 °C                            |

H-AVAS  
DRIVER



|                                                |                                  |
|------------------------------------------------|----------------------------------|
| TYPE                                           | Compression Loudspeaker          |
| DIMENSIONS                                     | 118 x 95 (mm)                    |
| WEIGHT                                         | 650 g                            |
| RATED POWER                                    | 40 W                             |
| RATED INPUT VOLTAGE                            | 12.5 V PEAK (8.8 V)              |
| NOMINAL IMPEDANCE                              | 4 Ohm or 2 Ohm                   |
| DC RESISTANCE                                  | 2.8 Ohm                          |
| HORN'S SPL<br>*USING FIAMM HORN SOUNDS         | 113 ± 2 dB<br>*According ECE R28 |
| FREQUENCY RANGE                                | 250Hz ± 6 kHz                    |
| SENSITIVITY (@1W/1M)<br>*ACCORDING IEC 60268-5 | 97 dB                            |
| THD (@1W)                                      | <5%<br>*in the range 300Hz-6kHz  |
| VERSION                                        | Passive                          |
| LEVEL OF PROTECTION                            | IP6K7; IP6K9K                    |
| OPERATING TEMPERATURE                          | -40/+90 °C                       |

## Homologation

**At component level:**  
ECE R10  
ECE R28

**At vehicle level:**  
easily compliant  
with the following  
homologations  
ECE R28  
FMVSS 141 (US)  
ECE R138 (EU)  
GB/T 37153-2018 (CN)

# RTM

## REMOTE TUNER MODULE

- EN

The SDARS Remote Tuner Module that “add Satellite radio to the US cars”.  
HORIEN has the capability to industrialise produce and certify REMOTE TUNER MODULES as well as to package it according to customer requirements.
- IT

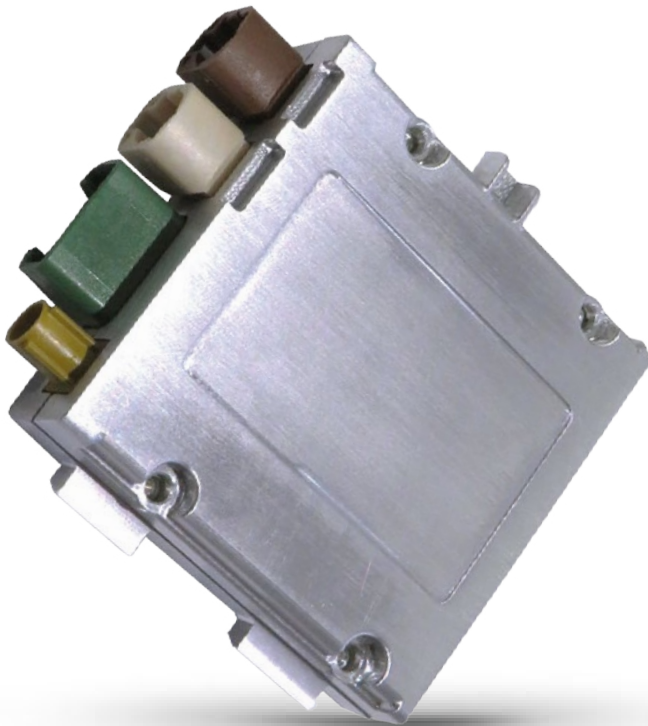
Il modulo sintonizzatore remoto SDARS che "aggiunge la radio satellitare alle auto negli Stati Uniti".  
HORIEN ha la capacità di produrre industrialmente e certificare i MODULI SINTONIZZATORI REMOTI, nonché di confezionarli secondo le esigenze del cliente.
- ES

El módulo sintonizador remoto SDARS que "agrega radio satelital a los autos en los EE. UU.". HORIEN tiene la capacidad de producir industrialmente y certificar los MÓDULOS SINTONIZADORES REMOTOS, así como empaquetarlos según los requisitos del cliente.
- FR

Le module de tuner à distance SDARS qui "ajoute la radio satellite aux voitures aux États-Unis". HORIEN a la capacité de produire industriellement et de certifier les MODULES DE TUNER À DISTANCE, ainsi que de les emballer selon les exigences du client.
- DE

Das SDARS Remote Tuner-Modul, das "Satellitenradio zu Autos in den USA hinzufügt". HORIEN hat die Fähigkeit, REMOTE TUNER MODULE industriell zu produzieren und zu zertifizieren sowie sie entsprechend den Kundenanforderungen zu verpacken.
- AR

ةردقلا HORIEN ىدل . "ةدحتملا تاياولولا في تارايسلا ىلإ يئاضفلا وي دارلا فيضت" يثلا SDARS ديعبال مأوملا ةدحو  
ءالمعلا تاب ل طتمل آقف و اهتئبع ت ىلإ ةفاضلإاب ، ديعبال مأوملا تادحو و قي ثوت و عي نصت و جاتنإ ىلع



### Technical Details / Specification

|                              |                             |
|------------------------------|-----------------------------|
| VOLTAGE SUPPLY               | 9,5V – 13,5V – 16V          |
| POWER WITHSTANDING           | 5 W                         |
| USB DEVICES PORTS            | 1                           |
| CAR PROJECTION COMPATIBILITY | Apple Carplay, Android Auto |
| USB SPECIFICATION            | USB2.0 (USB 3 PD capable)   |
| DIMENSIONS                   | 80 x 82 x 20mm              |
| WEIGHT                       | 130g                        |
| FAKRA CODING                 | Curry (K)                   |
| HSD TO USB HOST CODING       | Brown (F)                   |
| HSD TO USB DEVICE CODING     | White (B)                   |
| OPERATING TEMPERATURE        | –40 / +85°C                 |
| WATER PROTECTION/RESISTANCE  | IP34                        |

### THE RTM SDARS REASON WHY

A product with a dual function:

- USB HUB
- Satellite Digital Audio Radio Services over USB
- A simple cost efficient and light add-on to enable SDARS radio avoiding destandardisation of the head unit

### FEATURES, CHARACTERISTIC & ADVANTAGES

- Standard USB profiles (Audio USB & USB serial);
- 2 USB ports (USB3 PD capable);
- Adjustable power delivery to USB devices;
- Ultra low power sleep mode;
- Direct Battery connection;

Automotive  
Industrial  
Heavy Duty  
Electric Vehicles



# AM80SX line

THE ORIGINAL EQUIPMENT BEST CHOICE

**EN** The AM80SX is the standard choice of almost all premium European car manufacturers for its high durability, extreme compactness, incredible sound and OE quality standards. Available in a variety of versions and suitable for all 12V applications thanks to its versatility.

**IT** L'avvisatore AM80SX è la prima scelta di quasi tutti i produttori Europei di autoveicoli grazie alla sua elevata durata, estrema compattezza, incredibile suono e alti standard qualitativi OE. Disponibile in diverse versioni e adatto a tutte le applicazioni a 12V grazie alla sua versatilità.

**ES** El avisador AM80SX es la primera elección de casi los productores europeos de automóviles gracias a su elevada duración, gran compactabilidad, increíble sonido y elevados estándares cualitativos OE. Está disponible en diferentes versiones y es adecuado para todas las aplicaciones de 12 V gracias a su versatilidad.

**FR** L'avertisseur AM80SX est le choix de la majeure constructeurs automobiles européens grâce à sa grande durabilité, ses dimensions réduites, un son unique et ses normes de qualité première monte élevées. Disponible en différentes versions et adapté à toutes les applications 12V de par sa polyvalence.

**DE** Die AM80SX-Hupe ist dank ihrer hohen Haltbarkeit, extremen Kompaktheit, ihres unglaublichen Klangs und ihrer hohen OE-Qualitätsstandards die erste Wahl fast aller europäischen Automobilhersteller. In verschiedenen Ausführungen erhältlich und durch seiner Vielseitigkeit für fast alle 12V-Anwendungen geeignet.

**AR** يعد البوق AM80SX الاختيار الأول لجميع مصنعي السيارات الأوروبيين تقريبًا بفضل متانته العالية واكتنازه الفائق وصوته المذهل ومعايير الجودة العالية للمعدات الأصلية. إنه متوفر بإصدارات مختلفة ومناسب تقريبًا لكافة التطبيقات بـ 12 فولت بفضل تعدد استخداماته.

ELECTROMAGNETIC HORNS  
AVVISATORI ELETTROMAGNETICI  
AVISADORES ELECTROMAGNÉTICOS  
AVERTISSEURS ÉLECTROMAGNÉTIQUES  
ELEKTROMAGNETISCHE HUPEN  
الكهرومغناطيسية الأبواق

**AM80SX**  
STEEL/ABS  
  
  
**AM80SX 2T**  
COD. 932306Z  
+ 1 RELAY  
**AM80SX 2T**  
COD. 932307Z  
+ 1 RELAY  
**AM80SX/H 2T**  
COD. 932039Z  
**AM80SX/L 2T**  
COD. 932040Z

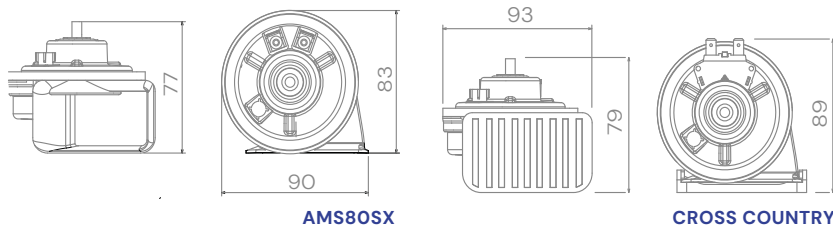
**CROSS COUNTRY**  
STEEL/ABS  
  
  
**AM80SX 2T**  
COD. 932081Z  
+ 1 RELAY  
**AM80SX/H 2T**  
COD. 932082Z  
**AM80SX/L 2T**  
COD. 932083Z

| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consommation<br>Stromaufnahme<br>استهلاك الطاقة (أمبير)<br>A | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | Connectors<br>Connettori<br>Conectores<br>Connecteurs<br>Stecker<br>موصلات | MOQ<br>u. |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------|
| 12                                                                      | 9                                                                                                     | 110                                                                                             | L = 405<br>H = 495                                                          | 2T                                                                         | 12<br>30  |
| 12                                                                      | 4,5                                                                                                   | 107                                                                                             | H = 495                                                                     | 2T                                                                         | 9         |
| 12                                                                      | 4,5                                                                                                   | 107                                                                                             | L = 405                                                                     | 2T                                                                         | 9         |

|    |     |     |                    |    |    |
|----|-----|-----|--------------------|----|----|
| 12 | 9   | 110 | L = 405<br>H = 495 | 2T | 12 |
| 12 | 4,5 | 107 | H = 495            | 2T | 9  |
| 12 | 4,5 | 107 | L = 405            | 2T | 9  |

TYPE APPROVAL / OMOLOGAZIONE / HOMOLOGACIÓN / HOMOLOGATION / ZULASSUNG / اعتماد  
Reg.28/Reg. 10 ECE

AM80SX LINE  
100.000 cycles



AM80SX LINE

ELECTROMAGNETIC HORNS  
AVVISATORI ELETTRMAGNETICI  
AVISADORES ELECTROMAGNÉTICOS  
AVERTISSEURS ÉLECTROMAGNÉTIQUES  
ELEKTROMAGNETISCHE HUPEN  
الكهرومغناطيسية الأبواق

**\*KIT**  
STEEL/ABS  


**AM80SX KIT UNI**  
COD. 932822Z  
+ 1 RELAY



**AM80SX/H KIT UNI**  
COD. 932698Z

**AM80SX/L KIT UNI**  
COD. 932699Z

**\*RIDOTTE**  
STEEL/ABS  


**AM80SX - R KIT UNI**  
COD. 932731Z  
+ 1 RELAY

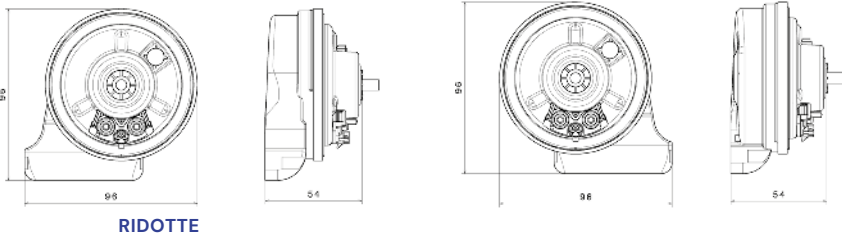


**AM80SX - R/H KIT UNI**  
COD. 932730Z

**AM80SX - R/L KIT UNI**  
COD. 932729Z

TYPE APPROVAL / OMOLOGAZIONE / HOMOLOGACIÓN / HOMOLOGATION / ZULASSUNG / اعتماد  
Reg.28/Reg. 10 ECE

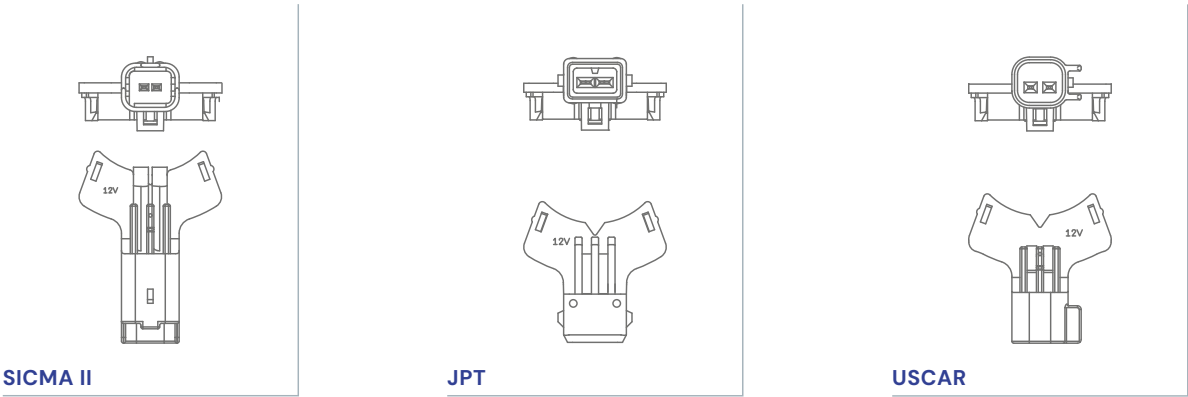
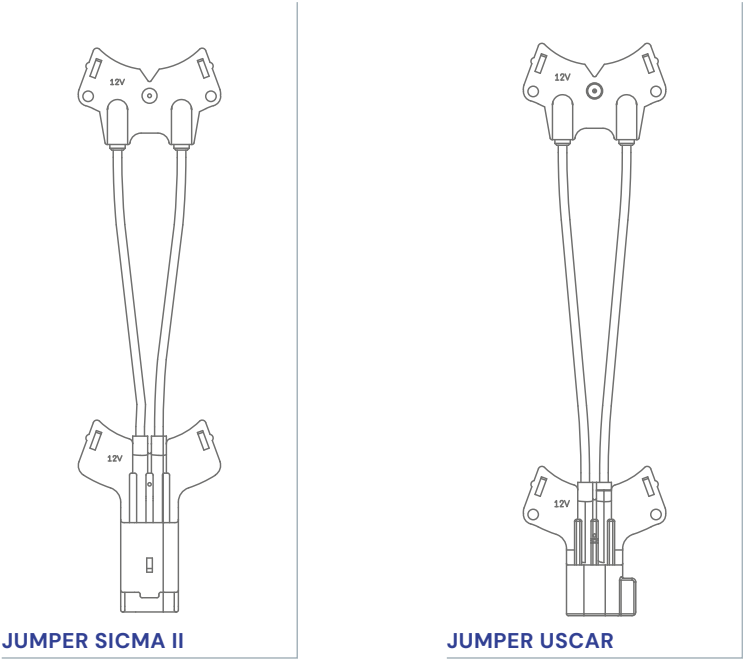
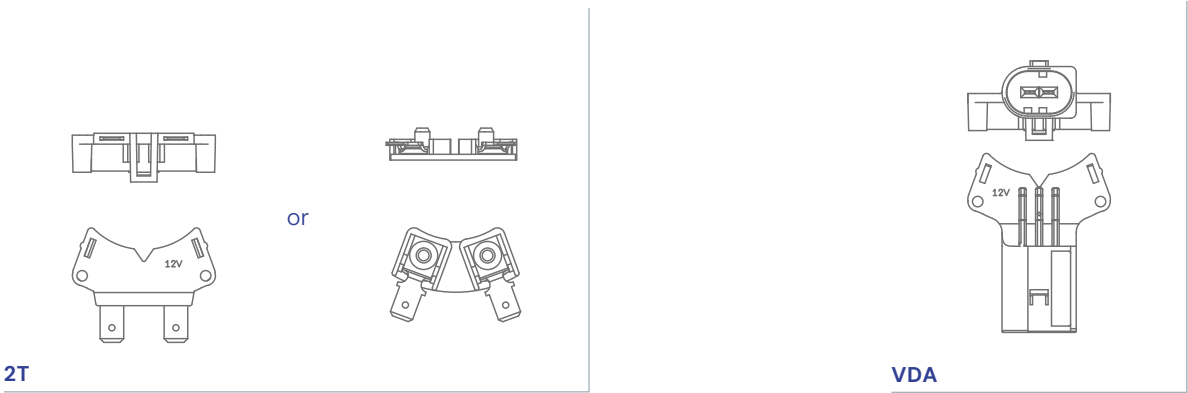
\*The FIAMM Universal Kit enables the installation of our electromagnetic horns on all applications,  
including BMW/MINI models from 2017 onward.



| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consommation<br>Stromaufnahme<br>استهلاك الطاقة (امبير)<br>A | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | Connectors<br>Connettori<br>Conectores<br>Connecteurs<br>Stecker<br>موصلات | MOQ<br>u. |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------|
| 12                                                                      | 9                                                                                                     | 110                                                                                             | L = 405<br>H = 495                                                          | 2T<br>JUMPER SICMA II<br>JUMPER USCAR                                      | 12        |
| 12                                                                      | 4,5                                                                                                   | 107                                                                                             | H = 495                                                                     | 2T<br>JPT<br>SICMA II<br>USCAR<br>VDA                                      | 9         |
| 12                                                                      | 4,5                                                                                                   | 107                                                                                             | L = 405                                                                     | 2T<br>JPT<br>SICMA II<br>USCAR<br>VDA                                      | 9         |

|    |     |     |                    |    |    |
|----|-----|-----|--------------------|----|----|
| 12 | 9   | 110 | L = 405<br>H = 495 | 2T | 12 |
| 12 | 4,5 | 107 | H = 495            | 2T | 9  |
| 12 | 4,5 | 107 | L = 405            | 2T | 9  |

# CONNECTORS



## APPROVED ROAD EMERGENCY FOR TRUCKS

البوق TR99 عبارة عن منتج كهرومغناطيسي مناسب للتطبيقات بـ 24 فولت مثل المركبات الصناعية والقفلة. إذا كنت تبحث عن شيء مشابه لـ AM80SX ولكن يناسب تطبيقات 24 فولت أو إذا كنت تبحث ببساطة عن بوق يدوم طويلاً وعالي الجودة، فإن هذا البوق هو الخيار الصحيح لك.



**TR99 LINE**

TR 99 LINE

**ELECTROMAGNETIC HORNS**  
**AVVISATORI ELETTROMAGNETICI**  
**AVISADORES ELECTROMAGNÉTICOS**  
**AVERTISSEURS ÉLECTROMAGNÉTIQUES**  
**ELEKTROMAGNETISCHE HUPEN**  
**الكهر ومغناطيسية الأوقاق**



TR99 2T  
COD. 922010  
+ 1 RELAY



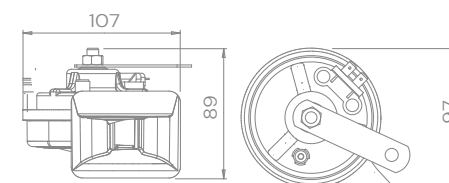
TR99/H 2T  
COD. 922020

TR99/L 2T  
COD. 922021

| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consummation<br>Stromaufnahme<br>استهلاك الطاقة (امبير)<br>A | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | Connectors<br>Connettori<br>Conectores<br>Connecteurs<br>Stecker<br>موصلات | MOG<br>u. |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------|
| 24                                                                      | 5                                                                                                     | 112                                                                                             | L = 420<br>H = 500                                                          | 2T                                                                         | 12        |

|    |     |     |         |    |   |
|----|-----|-----|---------|----|---|
| 24 | 2,5 | 109 | H = 500 | 2T | 9 |
| 24 | 2,5 | 109 | L = 420 | 2T | 9 |

TYPE APPROVAL / OMOLOGAZIONE / HOMOLOGACIÓN / HOMOLOGATION / ZULASSUNG / اعتماد  
Reg.28/Reg.10 ECE



TR99 2T

# HK line

## APPROVED DISCO HORNS

**EN** The HK line is the way to go in case of tight spaces applications such as passenger cars, motorcycles or even commercial vehicles. Our disk horns are extremely compact and durable. The range varies all the way from the big 91mm disk to the new to the family 76mm disk.

**IT** La linea HK è la scelta giusta in caso di applicazioni in spazi ristretti come autovetture, motocicli o anche veicoli commerciali. I nostri dischi sono estremamente compatti e durevoli. La gamma varia dal grande disco da 91mm al nuovo disco entrato in gamma da 76mm.

**ES** La línea HK es la elección correcta en caso de aplicaciones en espacios estrechos como coches, motos o incluso vehículos comerciales. Nuestros discos son muy compactos y duraderos. La gama varía desde el gran disco de 91 mm hasta el nuevo disco de la gama de 76 mm.

**FR** La famille HK est le bon choix pour les applications dans des espaces réduits comme les voitures, les motos ou même les véhicules utilitaires. Nos disques sont extrêmement compacts et durables. La gamme varie du large disque de 91 mm au tout nouveau disque de 76 mm.

**DE** Die HK-Linie ist die richtige Wahl für Anwendungen in engen Bauräumen wie Autos, Motorrädern oder sogar Nutzfahrzeugen. Unsere Tellerhörner sind extrem kompakt und langlebig. Die Produktpalette reicht von dem großen 91 mm Tellerhorn bis zum neuen Tellerhorn, das in die 76mm Reihe aufgenommen wurde.

بعد خط HK الاختيار الصحيح في حالة تطبيقات الأماكن الضيقة مثل سيارات الركاب والدراجات النارية وكذلك السيارات التجارية. أقرصنا مدمجة للغاية وتدوم طويلاً. تتنوع التشكيلة من القرص الكبير مقاس 91 مم إلى القرص الجديد الذي دخل في تشكيلة مقاس 76 مم.



HK LINE

ELECTROMAGNETIC DISC HORNS  
DISCHI ELETTROMAGNETICI  
DISCOS ELECTROMAGNÉTICOS  
DISQUES ÉLECTROMAGNÉTIQUES  
ELEKTROMAGNETISCHE TELLERHÖRNER  
كهرومغناطيسية أقراص

**K8X**  
STEEL/ALUMINIUM  


**K8X DUAL 2T**  
COD. 931000Z  
+ 1 RELAY

K8X/H 2T  
D. 9310025Z

K8X/L 2T  
COD. 9310026Z

HK9  
STEEL

**HK9 2T**  
COD. 920994  
+ 1 RELAY

HK9/H 2T  
COD. 920995

HK9/L 2T  
COD. 920996

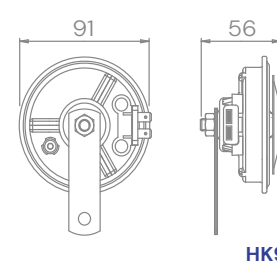
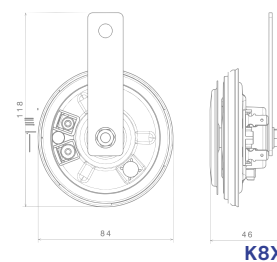
HK9  
STEEL

**HK9 2T**  
COD. 920368  
+ 1 RELAY

HK9/H 2T  
COD. 920369

HK9/L 2T  
COD. 920370

TYPE APPROVAL / OMOLOGAZIONE / HOMOLOGACIÓN / HOMOLOGATION / ZULASSUNG / اعتماد  
Reg.28/Reg. 10 ECE



| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consommation<br>Stromaufnahme<br>استهلاك الطاقة (امبير)<br>A | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | Connectors<br>Connettori<br>Conectores<br>Connecteurs<br>Stecker<br>موصلات | MOQ<br><br><br><br><br><br><br>u. |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------|
| 12                                                                      | 8                                                                                                     | 112                                                                                             | H = 425<br>L = 350                                                          | 2T                                                                         | 12                                |
| 12                                                                      | 4                                                                                                     | 110                                                                                             | H = 425                                                                     | 2T                                                                         | 9                                 |
| 12                                                                      | 4                                                                                                     | 110                                                                                             | L = 350                                                                     | 2T                                                                         | 9                                 |

|    |   |     |                    |    |
|----|---|-----|--------------------|----|
| 12 | 6 | 113 | L = 340<br>H = 425 | 12 |
| 12 | 3 | 110 | H = 425            | 9  |
| 12 | 3 | 110 | L = 340            | 9  |

|    |     |     |                    |    |
|----|-----|-----|--------------------|----|
| 24 | 3   | 113 | L = 340<br>H = 425 | 12 |
| 24 | 1,5 | 110 | H = 425            | 9  |
| 24 | 1,5 | 110 | L = 340            | 9  |

**EN** Jericho is one of our biggest boasts. An extremely powerful pneumatic horn, operated through on-board air with a built in 24V electro valve. It can suit every vehicle equipped with on-board air and is made to endure the toughest conditions providing an incredible sound that reaches 118dB.

**IT** Jericho è uno dei nostri più grandi vanti; è una tromba pneumatica estremamente potente azionata attraverso l'aria di bordo con un'elettrovalvola 24V incorporata. Può adattarsi a qualsiasi veicolo dotato di aria di bordo; è creata per resistere alle condizioni più difficili e fornisce un suono incredibile che raggiunge i 118dB.

**ES** Jericho es una de nuestras mayores joyas; es una bocina neumática muy potente accionada mediante el aire de a bordo con una electroválvula de 24 V incorporada. Puede adaptarse a cualquier vehículo provisto de aire a bordo; ha sido creada para resistir las condiciones más difíciles y proporciona un sonido increíble que alcanza los 118 dB.

**FR** Jéricho est l'une de nos plus grands best seller; c'est un avertisseur pneumatique actionné par l'air de bord avec une électrovalve 24V intégrée. Doté d'une vaste gamme de connecteurs électriques et pneumatique il s'adapte à n'importe quel véhicule avec circuit d'air comprimé à bord ; il est conçu pour résister aux conditions les plus difficiles et offre un son puissant atteignant 118 dB.

**DE** Jericho ist eine unserer größten Prahlerlein, ist eine extrem leistungsstarke pneumatische Hupe, die durch die Bord-Druckluft mit einem eingebauten 24V Magnetventil betrieben wird. Es passt in jedes Fahrzeug mit Bord-Druckluft; Es ist so gebaut, dass es den härtesten Bedingungen standhält und einen unglaublichen Klang von 118 dB erzeugt.

Jericho أحد أكبر منتجاتنا محل الفخر؛ إنه عبارة عن قرن هوائي قوي للغاية يتم تشغيله عبر الهواء الموجود على متن السيارة مع صمام ملف لولبي 24 فولت مدمج. يمكن تكييفه على أية سيارة مزودة بهواء على متنها؛ تم تصنيعه ليقاوم الظروف الأكثر صعوبة ويزود بصوت مذهل يصل إلى 8 11 ديسيبل.

JERICO



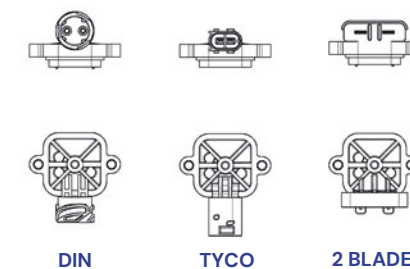
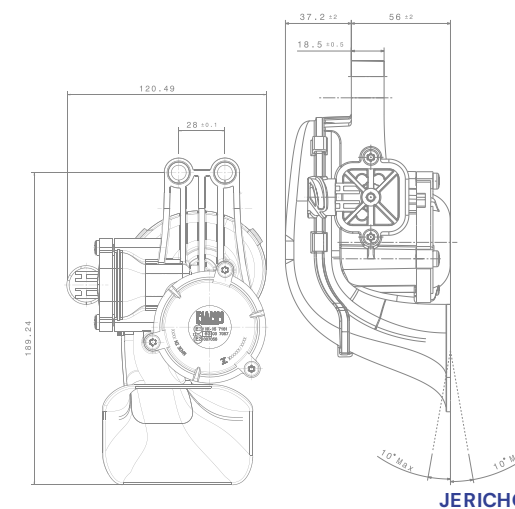
| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية | Air consumption<br>Consumo d'aria<br>Consumo de aire<br>Consommation d'air<br>Luftverbrauch<br>الهواء استهلاك | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد | Pressure<br>Pressione<br>Presión<br>Pression<br>Betriebsdruck<br>الضغط | MOQ |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|-----|
| v                                                                  | l/sec                                                                                                         | dB(A) 2m                                                                            | Hz                                                                    | kPa                                                                    | u.  |
| 24                                                                 | 0,4                                                                                                           | 118                                                                                 | 380                                                                   | 300<br>1000                                                            | 15  |

|                                                    |                      |         |
|----------------------------------------------------|----------------------|---------|
| ELECTRICAL CONNECTION                              | PNEUMATIC CONNECTION | P/N     |
| DAF / RENAULT / MERCEDES / HYUNDAI / VOLVO / IVECO |                      |         |
| DIN                                                | LEGRIS 6MM           | 928047Z |
| MERCEDES                                           |                      |         |
| DIN                                                | VOSS M16             | 928050Z |
| SCANIA                                             |                      |         |
| DIN                                                | M12                  | 928051Z |
| INDUSTRIAL APPLICATION (COBO)                      |                      |         |
| DIN                                                | RAUFOSS 8MM          | 928052Z |

|                       |                      |        |
|-----------------------|----------------------|--------|
| ELECTRICAL CONNECTION | PNEUMATIC CONNECTION | P/N    |
| RENAULT / IVECO / MAN |                      |        |
| TYCO                  | LEGRIS 6MM           | 928048 |
| VOLVO / RENAULT       |                      |        |
| TYCO                  | RAUFOSS 6MM          | 928057 |

| ELECTRICAL CONNECTION   | PNEUMATIC CONNECTION | P/N     |
|-------------------------|----------------------|---------|
| <b>ALL APPLICATIONS</b> |                      |         |
| 2 BLADES                | LEGRIS 6MM           | 928060Z |
| 2 BLADES                | RAUFOSS 6MM          | 928062Z |
| 2 BLADES                | M12                  | 928063Z |
| 2 BLADES                | VOSS M16             | 928064Z |
| 2 BLADES                | RAUFOSS 8MM          | 928065Z |

TYPE APPROVAL / OMOLOGAZIONE / HOMOLOGACIÓN / HOMOLOGATION / ZULASSUNG / اعتماد  
Reg.28/Reg. 10 ECE



# TIR line

TRUCK, PNEUMATIC HORNS

- EN

The TIR line is the main choice for most of the European truck manufacturers as first equipment. Composed by two stainless steel pneumatic horns suited for the installation outside the cabin of a truck. They can also be paired to create a powerful bi-tonal sound to identify the heavy vehicles they are mounted on.
- IT

La linea TIR rappresenta la principale scelta, come primo equipaggiamento, della maggior parte dei produttori Europei di autocarri. Questo prodotto è formato da due trombe pneumatiche in acciaio inox adatte all'istallazione all'esterno della cabina di guida. Possono anche essere usate in coppia per creare un suono bitonale potente adatto ad identificare i veicoli sulle quali vengono montate.
- ES

La línea TIR representa la principal elección, como primer equipamiento, de la mayoría de los productores europeos de autobuses. Este producto está compuesto por dos bocinas neumáticas de acero inoxidable adecuadas para su instalación en el exterior de la cabina de conducción. También pueden usarse conjuntamente para crear un sonido bitonal potente idóneo para identificar los vehículos donde se montan.
- FR

La famille TIR représente le choix principal, pour l'équipement première monte, de la plupart des constructeurs européens de poids-lourds. Ce produit se compose de deux avertisseurs pneumatiques en acier inoxydable adaptés à une installation à l'extérieur de la cabine du conducteur. Ils sont généralement utilisés en paire pour créer un son harmonieux à deux tons permettant d'identifier les véhicules sur lesquels ils sont montés.
- DE

Die TIR-Linie ist die erste Wahl als Erstausrüstung der meisten europäischen LKW-Hersteller. Dieses Produkt besteht aus zwei pneumatischen Edelstahlhörner, die für den Einbau außerhalb des Fahrerhauses geeignet sind. Sie können auch paarweise verwendet werden um einen kraftvollen Doppeltonklang zu erzeugen, der zur Identifizierung der Fahrzeuge geeignet ist an denen sie angebracht sind.
- AR

يمثل الخط TIR الاختيار الرئيسي لمعظم منتجي الشاحنات الأوروبية كتجهيز أول. هذا المنتج مشكّل من قرنين هوائيين من الفولاذ المقاوم للصدأ مناسبين للتركيب خارج مقصورة القيادة. كما يمكن استخدامهما في أزواج لإنشاء صوت ثنائي الدرجة وقوي مناسب لتحديد المركبات التي يتم تركيبهما عليها.



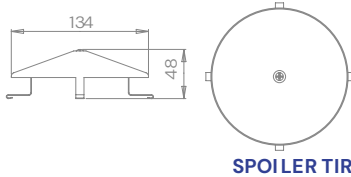
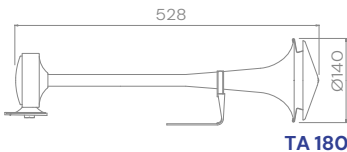
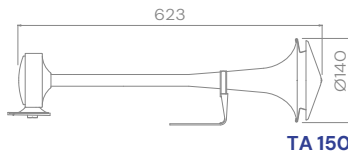
PNEUMATIC HORNS  
AVVISATORI PNEUMATICI  
AVISADORES NEUMÁTICO  
AVERTISSEURS PNEMATIQUES  
PNEUMATISCHE HUPEN  
منبهات هوائية

Standard application MAN/MERCEDES/HYUNDAI



TYPE APPROVAL / OMOLOGAZIONE / HOMOLOGACIÓN / HOMOLOGATION / ZULASSUNG / اعتماد  
Reg.28/Reg. 10 ECE

| Air consumption<br>Consumo d'aria<br>Consumo de aire<br>Consommation d'air<br>Luftverbrauch<br>الهواء استهلاك<br>l/sec | Pressure<br>Pressione<br>Presión<br>Pression<br>Betriebsdruck<br>الضغط<br>kPa | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | MOQ<br>u. |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------|
| 5,5                                                                                                                    | 600<br>1200                                                                   | 118                                                                                             | 150                                                                         | 9         |
| 5,5                                                                                                                    | 600<br>1200                                                                   | 118                                                                                             | 180                                                                         | 9         |
| -                                                                                                                      | -                                                                             | -                                                                                               | -                                                                           | 9         |



## ALA LINE

**EN** Our ALA line is the ideal choice to increase safety on public transport vehicles. An ALA is composed by two trumpets and one compressor, which finds them alternately to give the sound an incredible penetration power. Available both for 12V and 24V vehicles, to cover all the possible public transport vehicles.

**IT** La nostra linea di prodotti ALA è la scelta ideale per aumentare la sicurezza sui mezzi di trasporto pubblico. Un sistema ALA è composto da due trombe ed un compressore che le attiva in modo alternato, per conferire al suono un incredibile potere di penetrazione. Disponibile per applicazioni sia a 12V sia a 24V, così da coprire tutta la gamma possibile di mezzi di trasporto pubblico.

**ES** Nuestra línea de productos ALA es la elección ideal para aumentar la seguridad en los medios de transporte público. Un sistema ALA se compone de dos bocinas y un compresor que las activa de forma alternada, para dar al sonido un increíble poder de penetración. Disponible para aplicaciones tanto de 12 V como de 24 V, a fin de cubrir toda la gama posible de medios de transporte público.

**FR** Notre gamme de produits ALA est le choix idéal pour augmenter la sécurité dans les transports publics. Un système ALA est composé de deux trompes et un compresseur qui les active alternativement, pour générer un son très caractéristique et audible sur de longues distances. Disponible pour les applications 12V et 24V, afin de couvrir la gamme complète de véhicules de transport public possible.

**DE** Unsere ALA-Produktlinie ist die ideale Wahl, um die Sicherheit in öffentlichen Verkehrsmitteln zu erhöhen. Ein ALA-System besteht aus zwei Hörnern und einem Kompressor, der sie abwechselnd betätigt, um dem Klang eine unglaubliche Durchschlagskraft zu verleihen. Verfügbar sowohl für 12V als auch für 24V Anwendungen um die gesamte Bandbreite an Fahrzeugen des öffentlichen Verkehrs abzudecken.

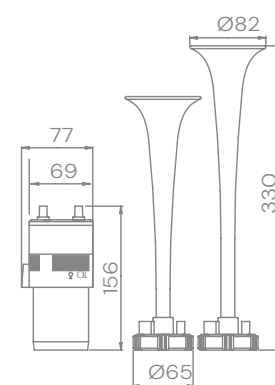
يعد خط منتجاتنا ALA الاختيار المثالي لزيادة السلامة على وسائل النقل العام. نظام ALA مكون من قرنين وضغط والذي يقوم بتنشيطهما بشكلٍ متتابع، لمنح الصوت قوة اختراق مذهلة. إنه متوفر في كلٍ من التطبيقات 12 فولت و 24 فولت، مما يغطي كل النطاق الممكن لوسائل النقل العام.

**ELECTROPNEUMATIC HORNS**  
**AVVISATORI ELETTRONEUMATICI**  
**AVISADORES ELECTROMAGNÉTICOS**  
**AVERTISSEURS ÉLECTROPNEUMATIQUES**  
**ELEKTROPNEUMATISCHE HUPEN**  
**منبهات كهربائية هوائية**



| Voltage<br>Voltaggio<br>Voltage<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consummation<br>Stromaufnahme<br>استهلاك الطاقة (امبير)<br>A | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | MOQ<br><br><br><br><br><br><br><br><br><br>u. |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------|
| 12                                                                      | 17                                                                                                    | 116                                                                                             | L = 390<br>H = 490                                                          | 8                                             |
| 24                                                                      | 8                                                                                                     | 116                                                                                             | L = 390<br>H = 490                                                          | 8                                             |

TYPE APPROVAL / OMOLOGAZIONE / HOMOLOGACIÓN / HOMOLOGATION / ZULASSUNG / اعتماد  
Reg.28/Reg. 10 ECE



ALA



# BACK-UP Alarms line

SUITED FOR SAFETY OF INDUSTRIAL VEHICLES AND TRUCKS

- EN

Our Back-Up line is suited for the safety of industrial vehicles and trucks with their penetrating and long-rang sound. They are available in a range of sound levels from the type "A" to type "D" taking all higher spots in terms of sound performances.
- IT

La nostra linea di allarmi di retromarcia è adatta alla sicurezza degli autocarri e dei veicoli industriali grazie al loro suono penetrante e udibile a lungo raggio. Sono disponibili in una vasta gamma di livelli sonori diversi, dal tipo "A" al tipo "D", toccando tutti i punti più alti in termini di prestazioni sonore.
- ES

Nuestra línea de alarmas de marcha atrás es adecuada para la seguridad de los autobuses y de los vehículos industriales gracias a su sonido penetrante y audible a larga distancia. Están disponibles en una amplia gama de niveles sonoros diferentes, desde el tipo "A" al tipo "D", tocando todos los puntos más altos por lo que se refiere a prestaciones sonoras.
- FR

Notre gamme d'alarmes de recul est adaptée à la sécurité des poids-lourds et véhicules industriels grâce à leur son aigu et audible longue portée. Ils sont disponibles dans une large gamme de niveaux sonores différents, du type "A" au type "D", points forts en termes de performances sonores.
- DE

Unsere Linie von Rückfahrwarnern eignet sich dank ihres durchdringenden und hörbaren Tons mit großer Reichweite für die Sicherheit von Lastkraftwagen und Industriefahrzeugen. Sie sind in einer breiten Palette unterschiedlicher Schallpegel erhältlich, von Typ „A“ bis Typ „D“, und erreichen alle Höhepunkte in Bezug auf die Klangleistung.
- AR

يعد خطنا من إنذارات الرجوع للخلف مناسباً لسلامة الشاحنات والسيارات الصناعية بفضل صوتها الخارق والمسموع على مدى بعيد. إنها متوفرة بتشكيلة واسعة مع مستويات صوت مختلفة، بدءاً من النوع "A" إلى النوع "D"، والتي تحقق جميع النقاط العليا من حيث الأداء الصوتي.



ELECTROMAGNETIC HORNS  
AVVISATORI ELETTROMAGNETICI  
AVISADORES ELECTROMAGNÉTICOS  
AVERTISSEURS ÉLECTROMAGNÉTIQUES  
ELEKTROMAGNETISCHE HUPEN  
الكهرومغناطيسية الأبواق

BA  
ABS

**BA97**  
COD. 923178  
TYPE C ALARM

**BA107**  
COD. 923176  
TYPE B ALARM

BA  
NYLON

**BA 87 12-80V**  
COD. 923163  
TYPE C ALARM

BA  
ABS

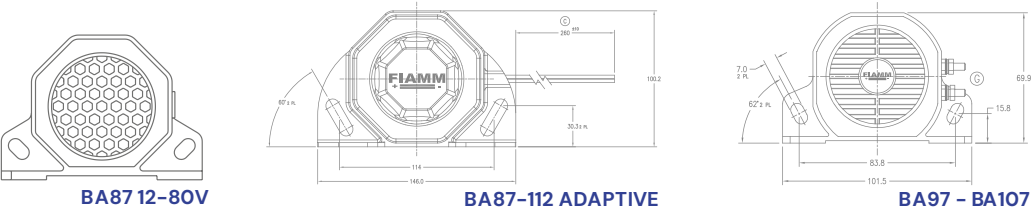
**BA87-112 ADAPTIVE**  
COD. 923177  
TYPE D ALARM

| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية | Amp. Draw<br>Assorbimento<br>Amperios<br>Consommation<br>Stromaufnahme<br>استهلاك الطاقة (امبير) | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد | MOQ |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----|
| V                                                                  | A                                                                                                | dB(A) 2m                                                                            | Hz                                                                    | u.  |
| 12<br>48                                                           | 17                                                                                               | 93<br>101                                                                           | 1300                                                                  | 17  |
| 12<br>24                                                           | 8                                                                                                | 103<br>111                                                                          | 1300                                                                  | 17  |

|          |     |    |      |   |
|----------|-----|----|------|---|
| 12<br>80 | 0,3 | 97 | 1270 | 9 |
|----------|-----|----|------|---|

|          |   |                       |      |   |
|----------|---|-----------------------|------|---|
| 12<br>24 | - | 87<br>112<br>ADAPTIVE | 1300 | 9 |
|----------|---|-----------------------|------|---|

TYPE APPROVAL / OMOLOGAZIONE / HOMOLOGACIÓN / HOMOLOGATION / ZULASSUNG / اعتماد  
Reg. 10 ECE





# MARINE HORN line

SMALL ELECTROMAGNETIC EMERGENCY HORN FOR RETRACTABLE INSTALLATION

- EN

Our Marine Horn line is designed to be mounted on the hull of your ship maintaining the safety of a powerful sound while reducing to the minimum its aesthetical impact. Provided in multiple color's allow the horn to blend in nicely with the hull colour.
- IT

La nostra gamma di avvisatori per la nautica è stata progettata per essere montata sullo scafo della vostra barca mantenendo la sicurezza di un suono potente e riducendo al minimo il suo impatto estetico, come dimostrano i molteplici colori disponibili per fondersi piacevolmente con il colore dello scafo.
- ES

Nuestra gama de avisadores para la náutica ha sido diseñada para ser montada en el casco de su barco manteniendo la seguridad de un sonido potente y reduciendo al mínimo su impacto estético, como demuestran los múltiples colores disponibles para fundirse agradablemente con el color del casco.
- FR

Notre gamme d'avertisseurs marine a été conçue pour être montée sur la coque de votre bateau tout en conservant la sécurité d'un son puissant et en minimisant son impact esthétique, comme en témoignent les multiples couleurs disponibles pour se fondre joliment avec la couleur de la coque.
- DE

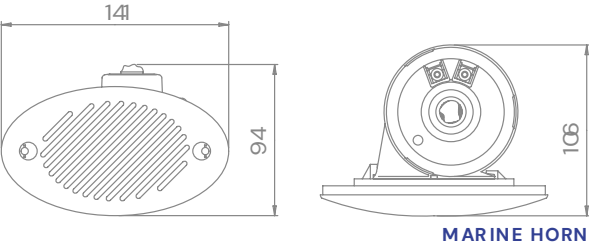
Unser Sortiment an nautischen Hupen wurde entwickelt um am Rumpf Ihres Bootes montiert zu werden während die Sicherheit eines kraftvollen Klangs gewahrt bleibt und seine ästhetische Wirkung minimiert wird wie durch die vielen verfügbaren Farben belegt wird, die sich gut mit der Rumpffarbe kombinieren lassen.
- AR

صُمِّمَت تشكِيلتتا من الأبواق البحرية ليتم تركيبها على هيكل قاربك مع الحفاظ على سلامة الصوت القوي وتقليل تأثير مظهره المميز إلى الحد الأدنى، كما تُظهر الألوان المتعددة المتاحة لتختفي بشكل جيد في لون هيكل القارب.

ELECTROMAGNETIC HORNS  
AVVISATORI ELETTROMAGNETICI  
AVISADORES ELECTROMAGNÉTICOS  
AVERTISSEURS ÉLECTROMAGNÉTIQUES  
ELEKTROMAGNETISCHE HUPEN  
الكهرومغناطيسية الأبواق



| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consommation<br>Stromaufnahme<br>استهلاك الطاقة (أمبير)<br>A | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | MOQ<br>u. |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------|
| 12                                                                      | 4,5                                                                                                   | 107                                                                                             | 405                                                                         | 4         |
| 12                                                                      | 4,5                                                                                                   | 107                                                                                             | 405                                                                         | 4         |



# TA/M4 line

STEEL TRUMPETS FOR EXCELLENT AUDIBILITY AT SEA

**EN** Our TA line for marine applications is composed by pneumatic horns characterized by high quality materials and a classic look, which gives you the possibility to mount them directly on the deck or on the roof of your boat. They are made of stainless steel and require a source of compressed air on board.

**IT** La nostra linea TA per applicazioni nautiche è composta da trombe pneumatiche caratterizzate da materiali di alta qualità e un look classico che offre la possibilità di montarle direttamente sul ponte o sul tetto della barca. Sono realizzate in acciaio inossidabile e richiedono una fonte di aria compressa a bordo.

**ES** Nuestra línea TA para aplicaciones náuticas se compone de bocinas neumáticas caracterizadas por materiales de alta calidad y un estilo clásico que ofrece la posibilidad de montarlas directamente en el puente o en el techo del barco. Han sido realizadas con acero inoxidable y requieren una fuente de aire comprimido a bordo.

**FR** Notre ligne TA pour les applications marines se compose d'avertisseurs pneumatiques caractérisés par des matériaux de haute qualité et un look classique qui offre la possibilité de les monter directement sur le pont ou sur le toit du bateau. Ils sont en acier inoxydable et nécessitent une source d'air comprimé à bord.

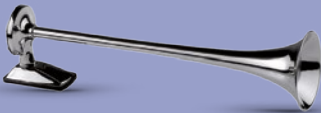
**DE** Unsere TA-Linie für Schiffsanwendungen besteht aus pneumatischen Hupen, die sich durch hochwertige Materialien und ein klassisches Aussehen auszeichnen, das die Möglichkeit bietet, sie direkt auf dem Deck oder auf dem Dach des Bootes zu montieren. Sie bestehen aus Edelstahl und benötigen eine Bord-Druckluft.

**AR** يتكون خطنا TA المخصص للتطبيقات البحرية من قرون هوائية تتميز بمواد عالية الجودة ومظهر كلاسيكي والذي يمنح إمكانية تركيبها مباشرة على سطح القارب أو على سقفه. إنها منفذة من الفولاذ المقاوم للصدأ وتتطلب مصدر هواء مضغوط على متنه.



PNEUMATIC HORNS  
AVVISATORI PNEUMATICI  
AVISADORES NEUMÁTICO  
AVERTISSEURS PNEMATIQUES  
PNEUMATISCHE HUPEN  
منبهات هوائية

NR/NS  
INOX STEEL  
TA/NR  
COD. 920310



TA/NS  
COD. 920311

DUAL  
INOX STEEL



TA DUAL  
COD. 920336

MP  
INOX STEEL



TA MP  
COD. 920374

| TA/M4 LINE                                                                                                             |                                                                                                 |                                                                             |                                   |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------|
| Air consumption<br>Consumo d'aria<br>Consumo de aire<br>Consommation d'air<br>Luftverbrauch<br>الهواء استهلاك<br>l/sec | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | MOQ<br><br><br><br><br><br><br>u. |
| 1,2                                                                                                                    | 120                                                                                             | 380                                                                         | 6                                 |
| 1,2                                                                                                                    | 120                                                                                             | 320                                                                         | 6                                 |
| 2,4                                                                                                                    | 123                                                                                             | L = 320<br>H = 380                                                          | 6                                 |
| 5,5                                                                                                                    | 128                                                                                             | 380                                                                         | 5                                 |

ELECTROPNEUMATIC HORNS  
AVVISATORI ELETTOPNEUMATICI  
AVISADORES ELECTROMAGNÉTICOS  
AVERTISSEURS ÉLECTROPNEUMATIQUES  
ELEKTROPNEUMATISCHE HUPEN  
منبهات كهربائية هوائية



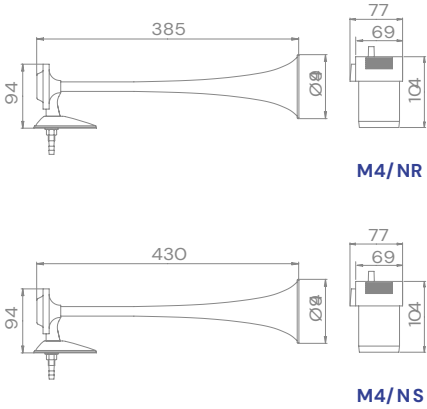
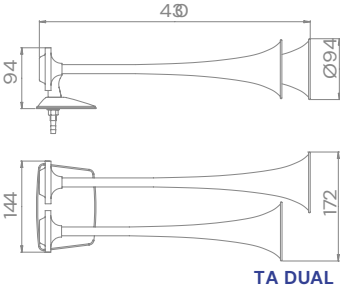
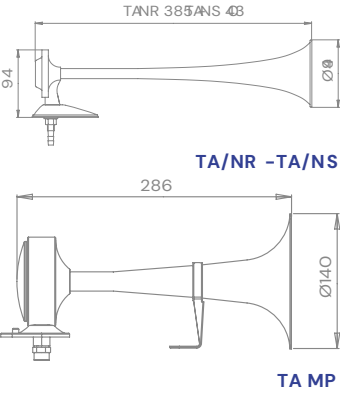
**M4/NR 12V**  
COD. 921993  
INOX STEEL

**M4/NR 24V**  
COD. 921994  
INOX STEEL

**M4/NS 12V**  
COD. 921995  
INOX STEEL

**M4/NS 24V**  
COD. 921996  
INOX STEEL

| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consommation<br>Stromaufnahme<br>استهلاك الطاقة (أمبير)<br>A | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | MOQ<br>u. |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------|
| 12                                                                      | 17                                                                                                    | 114                                                                                             | 380                                                                         | 6         |
| 24                                                                      | 8                                                                                                     | 114                                                                                             | 380                                                                         | 6         |
| 12                                                                      | 17                                                                                                    | 114                                                                                             | 320                                                                         | 6         |
| 24                                                                      | 8                                                                                                     | 114                                                                                             | 320                                                                         | 6         |



# PS10 System

- EN

Electronic priority emergency horn for continuous service, ensuring a powerful, clean sound. Systems equipped with a control unit with degree of protection IP67 and Loudspeaker IP 66. The PS10 system, thanks to its flexibility, complies with national standard requirements and can produce several sounds and is therefore easily customisable.
- IT

Avvisatore prioritario elettronico per servizio continuo che garantisce un suono potente e pulito. Sistema dotato di centralina con grado di protezione IP67 e di Altoparlanti IP 66. Il sistema PS10, grazie alla sua flessibilità, risponde alle normative nazionali richieste e può produrre più suoni, per cui è facilmente customizzabile.
- ES

Avisador prioritario electrónico para servicio continuo que garantiza un sonido potente y limpio. Sistema dotado de unidad de control con grado de protección IP67 y de altavoces IP66. El sistema PS10, gracias a su flexibilidad, cumple con las normas nacionales y puede reproducir tonalidades diferentes, entonces es fácilmente personalizable.
- FR

Avertisseur prioritaire électronique pour service continu qui garantit un son puissant et net. Système pourvu de centrale avec degré de protection IP67 et de haut-parleurs IP 66. Le système PS10, grâce à sa flexibilité, répond aux normes nationales exigées et peut produire plusieurs sons, c'est pourquoi il est facilement adaptable.
- DE

Bevorrechtigte elektronische Hupe für den Dauerbetrieb. Sie garantiert einen starken und sauberen Klang. System mit Steuereinheit, Schutzgrad IP67 und Lautsprechern IP66. Das System PS10 entspricht dank seiner Flexibilität den national geforderten Richtlinien und kann mehrere Klänge erzeugen, weshalb es sich leicht der jeweiligen Anwendung anpassen lässt.
- AR

منبه إلكتروني أساسي للخدمة المستمرة بضمن صوتا عاليا ونظيفا. نظام مزود بوحدة تحكم مصنفة IP67 ومكبرات صوت IP66. النظام PS10 بفضل مرونته، يلبى الشروط القانونية المحلية ويمكن أن ينتج أكثر من صوت، ولذا فمن السهل ضبطه حسب المطلوب.



- Fire Brigades

Vigili del fuoco  
Bomberos  
Sapeurs-Pompiers  
Feuerwehr
- Ambulance

Ambulanza  
Ambulancia  
Ambulance  
Krankenwagen
- Police Forces

Forze dell'ordine  
Fuerzas de Policía  
Forces de Police  
Polizeikräfte



ELECTRONIC MODULE FOR PS10 SYSTEM  
MODULO ELETTRONICO PER SISTEMA PS10  
MÓDULO ELECTRÓNICO PARA SISTEMA PS10  
MODULE ÉLECTRONIQUE POUR SYSTÈME PS10  
ELEKTRONIKMODUL FÜR PS10-SYSTEM  
منبهات صوتية للطوارئ

- PS10  
FLAME  
RETARDANT  
PBT

PS10 – AMB-POMP-I  
COD. 951001
- PS10 – AMB-POMP-WY-I  
COD. 951062
- PS10 – POL-I  
COD. 951013
- PS10 – AMB-F  
COD. 951004

PS10 – UMH-F  
COD. 951006

PS10 – AMB-UMH-F  
COD. 951059

PS10 – GEN-F  
COD. 951007

PS10 – POL-F  
COD. 951008

PS10 – SPO-F  
COD. 951005

PS10 – SPO-F 24V  
COD. 951023  
SPECIAL FOR 1 LOUDSPEAKER

PS10 – EMER- N  
COD. 951028

PS10-EMER-N  
SLOW  
COD. 951089

| Country         | Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consommation<br>Stromaufnahme<br>استهلاك الطاقة (امبير)<br>A | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | Option                     | Special Force<br>Application<br>& MOQ<br>u. |
|-----------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------|---------------------------------------------|
| ITALY<br>       | 12<br>24                                                                | 3,5<br>1,75                                                                                           | L = 392<br>H = 660                                                          | -                          | <br>8                                       |
| ITALY<br>       | 12<br>24                                                                | 3,5<br>1,75                                                                                           | L = 392<br>H = 523                                                          | WAIL/YELP                  | <br>8                                       |
| ITALY<br>       | 12<br>24                                                                | 3,5<br>1,75                                                                                           | L = 466<br>H = 622                                                          | -                          | <br>8                                       |
| FRANCE<br>      | 12<br>24                                                                | 3,5<br>1,75                                                                                           | L = 420<br>H = 516                                                          | -                          | <br>8                                       |
| FRANCE<br>      | 12<br>24                                                                | 3,5<br>1,75                                                                                           | L = 435<br>H = 651                                                          | DAY/NIGHT                  | <br>8                                       |
| FRANCE<br>      | 12<br>24                                                                | 3,5<br>1,75                                                                                           | -                                                                           | AMBULANCE<br>UMH DAY/NIGHT | <br>8                                       |
| FRANCE<br>      | 12<br>24                                                                | 3,5<br>1,75                                                                                           | L = 435<br>H = 732                                                          | -                          | <br>8                                       |
| FRANCE<br>      | 12<br>24                                                                | 3,5<br>1,75                                                                                           | L = 435<br>H = 580                                                          | DAY/NIGHT                  | <br>8                                       |
| FRANCE<br>      | 12<br>24                                                                | 3,5<br>1,75                                                                                           | L = 435<br>H = 488                                                          | -                          | <br>8                                       |
| FRANCE<br>      | 12<br>24                                                                | 3,5<br>1,75                                                                                           | L = 435<br>H = 488                                                          | -                          | <br>8                                       |
| NETHERLANDS<br> | 12<br>24                                                                | 3,5<br>1,75                                                                                           | L = 375<br>H = 500                                                          | FAST/SLOW                  | <br>8                                       |
| NETHERLANDS<br> | 12<br>24                                                                | 3,5<br>1,75                                                                                           | L = 360<br>H = 480                                                          | FAST/SLOW                  | <br>8                                       |



ELECTRONIC MODULE FOR PS10 SYSTEM  
MODULO ELETTRONICO PER SISTEMA PS10  
MÓDULO ELECTRÓNICO PARA SISTEMA PS10  
MODULE ÉLECTRONIQUE POUR SYSTÈME PS10  
ELEKTRONIKMODUL FÜR PS10-SYSTEM  
منبهات صوتية للطوارئ

PS10  
FLAME RETARDANT  
PBT



PS10 – EMER–B  
COD. 951078

PS10–SPO–  
B NIGHT  
COD. 951091

PS10 – EMER–UK  
COD. 951035

PS10 – EMER–  
WY–UK  
COD. 951034

PS10 – AMB–A  
COD. 951046

PS10 – FEUER–A  
COD. 951064

| Country                                                                                        | Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consumption<br>Stromaufnahme<br>استهلاك الطاقة (امبير)<br>A | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | Option    | Special Force<br>Application<br>& MOQ<br>u.                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BELGIUM<br>   | 12                                                                      | 3,5                                                                                                  | L = 440                                                                     | -         |   <br>8       |
|                                                                                                | 24                                                                      | 1,75                                                                                                 | H = 495                                                                     |           |                                                                                                                                                                                                                                                                        |
| BELGIUM<br>   | 12                                                                      | 3,5                                                                                                  | L = 440                                                                     | -         | <br>8                                                                                                                                                                               |
|                                                                                                | 24                                                                      | 1,75                                                                                                 | H = 495                                                                     |           |                                                                                                                                                                                                                                                                        |
| UK<br>        | 12                                                                      | 3,5                                                                                                  | L = 440                                                                     | -         |   <br>8       |
|                                                                                                | 24                                                                      | 1,75                                                                                                 | H = 495                                                                     |           |                                                                                                                                                                                                                                                                        |
| UK<br>      | 12                                                                      | 3,5                                                                                                  | L = 440                                                                     | WAIL/YELP |   <br>8 |
|                                                                                                | 24                                                                      | 1,75                                                                                                 | H = 495                                                                     |           |                                                                                                                                                                                                                                                                        |
| AUSTRIA<br> | 12                                                                      | 3,5                                                                                                  | L = 450                                                                     | -         | <br>8                                                                                                                                                                             |
|                                                                                                | 24                                                                      | 1,75                                                                                                 | H = 600                                                                     |           |                                                                                                                                                                                                                                                                        |
| AUSTRIA<br> | 12                                                                      | 3,5                                                                                                  | L = 392                                                                     | -         | <br>8                                                                                                                                                                             |
|                                                                                                | 24                                                                      | 1,75                                                                                                 | H = 523                                                                     |           |                                                                                                                                                                                                                                                                        |

TYPE APPROVAL / OMOLOGAZIONE / HOMOLOGACIÓN / HOMOLOGATION / ZULASSUNG / اعتماد  
Reg.10/National homologation if required

ELECTRONIC MODULE FOR PS10 SYSTEM  
MODULO ELETTRONICO PER SISTEMA PS10  
MÓDULO ELECTRÓNICO PARA SISTEMA PS10  
MODULE ÉLECTRONIQUE POUR SYSTÈME PS10  
ELEKTRONIKMODUL FÜR PS10-SYSTEM  
منبهات صوتية للطوارئ

PS10  
FLAME RETARDANT  
PBT



PS10 – EMER–D  
COD. 951060

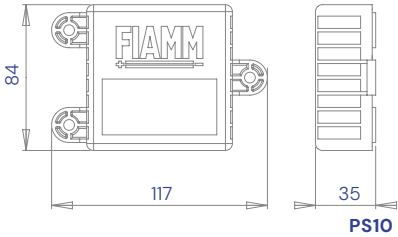
PS10 – USSOUND  
COD. 951061  
WAIL/YELP

PS10 – USSOUND–WY  
COD. 951063  
HI-LO

TYPE APPROVAL / OMOLOGAZIONE / HOMOLOGACIÓN / HOMOLOGATION / ZULASSUNG / اعتماد  
Reg.10/National homologation if required



| Country                                                                                                                                                                                              | Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consumption<br>Stromaufnahme<br>استهلاك الطاقة (امبير)<br>A | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | Option      | Special Force<br>Application<br>& MOQ<br>u.                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GERMANY<br>SWITZERLAND<br>     | 12                                                                      | 3,5                                                                                                  | L = 430                                                                     | STANDT/LAND |   <br>8 |
|                                                                                                                                                                                                      | 24                                                                      | 1,75                                                                                                 | H = 570                                                                     |             |                                                                                                                                                                                                                                                                  |
| LATIN<br>AMERICA<br>                                                                                              | 12                                                                      | 3,5                                                                                                  | L = 430                                                                     | WAIL/YELP   |   <br>8 |
|                                                                                                                                                                                                      | 24                                                                      | 1,75                                                                                                 | H = 570                                                                     |             |                                                                                                                                                                                                                                                                  |
| INTERNATIONAL<br>U.S.A.<br>  | 12                                                                      | 3,5                                                                                                  | L = 560                                                                     | WAIL/YELP   |   <br>8 |
|                                                                                                                                                                                                      | 24                                                                      | 1,75                                                                                                 | H = 650                                                                     |             |                                                                                                                                                                                                                                                                  |



# PS10

SYSTEM CHOICE

1 Choose your country

2 Choose your special force:

- Fire Brigades**  
Vigili del fuoco  
Bomberos  
Sapeurs-Pompiers  
Feuerwehr
- Ambulance**  
Ambulanza  
Ambulancia  
Ambulance  
Krankenwagen
- Police Forces**  
Forze dell'ordine  
Fuerzas de Policia  
Forces de Police  
Polizeikräfte

3 Read the code of your electronic module

4 Choose your vehicle type (CAR | VAN | TRUCK)

5 Read on the left the code of your loudspeaker

6 Complete your system with the mandatory connection cable



|  |  | Italy                                                                                                                                                               |                                       |                              | France                                                                                                 |                              |                                  |                              |                              |                              |                                    |                               | Netherlands                                                                                   |  |
|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|------------------------------|------------------------------|------------------------------|------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------|--|
|  |  |                                                                                                                                                                     |                                       |                              |                                                                                                        |                              |                                  |                              |                              |                              |                                    |                               |                                                                                               |  |
|  |  | *                                                                                                                                                                   | *                                     |                              | *                                                                                                      | *                            | *                                |                              |                              |                              |                                    | *                             |                                                                                               |  |
|  |  | PS10<br>AMB-POMP-I<br>COD. 951001                                                                                                                                   | PS10-AMB-<br>POMP-WY-I<br>COD. 951062 | PS10<br>POL-I<br>COD. 951013 | PS10<br>AMB-F<br>COD. 951004                                                                           | PS10<br>UMH-F<br>COD. 951006 | PS10<br>AMB-UMH-F<br>COD. 951059 | PS10<br>GEN-F<br>COD. 951007 | PS10<br>POL-F<br>COD. 951008 | PS10<br>SPO-F<br>COD. 951005 | PS10<br>SPO-F 24V<br>COD. 951023   | PS10<br>EMER-N<br>COD. 951028 | PS10<br>EMER-N SLOW<br>COD. 951089                                                            |  |
|  |  | CAR   VAN   TRUCK<br>1 module +<br>• 1 loudspeaker (Car, Van)<br>• 2 loudspeakers (Car, Van, Truck)                                                                 |                                       |                              | CAR   VAN   TRUCK<br>1 module +<br>• 1 loudspeaker (Car, Van)<br>• 2 loudspeakers (Car, Van, Truck)    |                              |                                  |                              |                              |                              | TRUCK<br>1 module +<br>• 1 loudsp. |                               | CAR   VAN   TRUCK<br>1 module +<br>• 1 loudsp. (Car, Van)<br>• 2 loudsp. (Car, Van, Truck)    |  |
|  |  | LOUDSPEAKER FM<br>COD. 951052                                                                                                                                       |                                       |                              | LOUDSPEAKER FS<br>COD. 951053                                                                          |                              |                                  |                              |                              |                              | -                                  |                               | CAR   VAN<br>1 module +<br>• 1 loudsp. (Car, Van)<br>• 2 loudsp. (Car, Van)                   |  |
|  |  | LOUDSPEAKER NS<br>COD. 951056                                                                                                                                       |                                       |                              | CAR   VAN<br>1 module +<br>• 1 loudspeaker (Car, Van)<br>• 2 loudspeakers (Car, Van)                   |                              |                                  |                              |                              |                              | -                                  |                               | CAR   VAN<br>1 module +<br>• 1 loudsp. (Car, Van)<br>• 2 loudsp. (Car, Van)                   |  |
|  |  | LOUDSPEAKER NSC<br>COD. 951055                                                                                                                                      |                                       |                              | MOTORBIKE   CAR<br>1 module +<br>• 1 loudspeaker (Motorbike, Car)<br>• 2 loudspeakers (Motorbike, Car) |                              |                                  |                              |                              |                              | -                                  |                               | MOTORBIKE   CAR<br>1 module +<br>• 1 loudsp. (Motorbike, Car)<br>• 2 loudsp. (Motorbike, Car) |  |
|  |  | CONNECTION<br>CABLE<br>COD. 951057                                                                                                                                  |                                       |                              |                                                                                                        |                              |                                  |                              |                              |                              |                                    |                               |                                                                                               |  |
|  |  | MANDATORY FOR ALL SYSTEMS / NECESSARIO IN TUTTI I SISTEMI / NECESARIO EN TODOS LOS SISTEMAS<br>OBLIGATOIRE POUR TOUS LES SYSTÈMES / FÜR ALLE SYSTEME ERFORDERLICH / |                                       |                              |                                                                                                        |                              |                                  |                              |                              |                              |                                    |                               |                                                                                               |  |

| Belgium<br>                                                                                                                                                              |                                                                                     | United Kingdom<br>                                                                                                                                                       |                                   | Austria<br>                                                  |                                                                                     | Germany<br>Switzerland<br>                                                            |                                | Latin<br>America<br> |  | USA<br>International<br>  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|    |  |    |                                   |                                                              |  |    |                                |                                                                                                         |  |                                                                                                                                                                                                 |  |
| PS10<br>EMER-B<br>COD. 951078                                                                                                                                                                                                                               | PS10<br>SPO-B NIGHT<br>COD. 951091                                                  | PS10<br>EMER-UK<br>COD. 951035                                                                                                                                                                                                                              | PS10<br>EMER-WY-UK<br>COD. 951034 | PS10<br>AMB-A<br>COD. 951046                                                                                                                    | PS10<br>FEUER-A<br>COD. 951064                                                      | PS10<br>EMER-D<br>COD. 951060                                                                                                                                                                                                                               | PS10<br>USSOUND<br>COD. 951061 | PS10<br>USSOUND-WY<br>COD. 951063                                                                       |  |                                                                                                                                                                                                 |  |
| CAR   VAN   TRUCK<br>1 module + <ul style="list-style-type: none"><li>• 1 loudsp. (Car, Van)</li><li>• 2 loudsp. (Car, Van, Truck)</li></ul>                                                                                                                |                                                                                     | CAR   VAN   TRUCK<br>1 module + <ul style="list-style-type: none"><li>• 1 loudsp. (Car, Van)</li><li>• 2 loudsp. (Car, Van, Truck)</li></ul>                                                                                                                |                                   | CAR   VAN   TRUCK<br>1 module + <ul style="list-style-type: none"><li>• 1 loudsp. (Car, Van)</li><li>• 2 loudsp. (Car, Van, Truck)</li></ul>    |                                                                                     | CAR   VAN   TRUCK<br>1 module + <ul style="list-style-type: none"><li>• 1 loudspeaker (Car, Van)</li><li>• 2 loudspeakers (Car, Van, Truck)</li></ul>                                                                                                       |                                |                                                                                                         |  |                                                                                                                                                                                                 |  |
| CAR   VAN<br>1 module + <ul style="list-style-type: none"><li>• 1 loudspeaker (Car, Van)</li><li>• 2 loudspeakers (Car, Van)</li></ul>                                                                                                                      |                                                                                     | CAR   VAN<br>1 module + <ul style="list-style-type: none"><li>• 1 loudspeaker (Car, Van)</li><li>• 2 loudspeakers (Car, Van)</li></ul>                                                                                                                      |                                   | CAR   VAN<br>1 module + <ul style="list-style-type: none"><li>• 1 loudspeaker (Car, Van)</li><li>• 2 loudspeakers (Car, Van)</li></ul>          |                                                                                     | CAR   VAN<br>1 module + <ul style="list-style-type: none"><li>• 1 loudspeaker (Car, Van)</li><li>• 2 loudspeakers (Car, Van)</li></ul>                                                                                                                      |                                |                                                                                                         |  |                                                                                                                                                                                                 |  |
| CAR   VAN<br>1 module + <ul style="list-style-type: none"><li>• 1 loudspeaker (Car, Van)</li><li>• 2 loudspeakers (Car, Van)</li></ul>                                                                                                                      |                                                                                     | CAR   VAN<br>1 module + <ul style="list-style-type: none"><li>• 1 loudspeaker (Car, Van)</li><li>• 2 loudspeakers (Car, Van)</li></ul>                                                                                                                      |                                   | CAR   VAN<br>1 module + <ul style="list-style-type: none"><li>• 1 loudspeaker (Car, Van)</li><li>• 2 loudspeakers (Car, Van)</li></ul>          |                                                                                     | CAR   VAN<br>1 module + <ul style="list-style-type: none"><li>• 1 loudspeaker (Car, Van)</li><li>• 2 loudspeakers (Car, Van)</li></ul>                                                                                                                      |                                |                                                                                                         |  |                                                                                                                                                                                                 |  |
| MOTORBIKE   CAR<br>1 module + <ul style="list-style-type: none"><li>• 1 loudsp. (Motorbike, Car)</li><li>• 2 loudsp. (Motorbike, Car)</li></ul>                                                                                                             |                                                                                     | MOTORBIKE   CAR<br>1 module + <ul style="list-style-type: none"><li>• 1 loudsp. (Motorbike, Car)</li><li>• 2 loudsp. (Motorbike, Car)</li></ul>                                                                                                             |                                   | MOTORBIKE   CAR<br>1 module + <ul style="list-style-type: none"><li>• 1 loudsp. (Motorbike, Car)</li><li>• 2 loudsp. (Motorbike, Car)</li></ul> |                                                                                     | MOTORBIKE   CAR<br>1 module + <ul style="list-style-type: none"><li>• 1 loudspeaker (Motorbike, Car)</li><li>• 2 loudspeakers (Motorbike, Car)</li></ul>                                                                                                    |                                |                                                                                                         |  |                                                                                                                                                                                                 |  |

# Loudspeakers Ferrite Magnet

- EN

The PS10 system offers different types of loudspeakers to permit the best installation suitable for different needs. There are loudspeakers in ferrite and neodymium, available in various dimensions for internal or external vehicle installation.
- IT

Il sistema PS10 dispone di diverse tipologie di altoparlanti per permettere un'installazione adatta alle diverse esigenze. Vi sono altoparlanti in ferrite e in neodimio, disponibili in diverse dimensioni per installazioni interne o esterne al veicolo..
- ES

El sistema PS10 dispone de tipos diferentes de altavoces para una instalación apropiada a las diferentes exigencias. Hay altavoces de ferrita y de neodimio, disponibles en diferentes dimensiones para instalaciones internas o externas al vehículo.
- FR

Le système PS10 dispose de typologies de haut-parleurs différentes, afin de permettre une installation adaptée aux diverses exigences. Il y a des haut-parleurs en ferrite et en néodyme, disponibles dans différentes dimensions pour des installations internes ou externes au véhicule.
- DE

Das System PS10 verfügt über unterschiedliche Lautsprechertypen, um eine den verschiedenen Anforderungen entsprechende Installation zu ermöglichen. Es gibt Lautsprecher aus Ferrit und aus Neodym, die in verschiedenen Größen zur Installation im Innen oder außen am Fahrzeug erhältlich sind.
- AR

يحتوي نظام PS10 على أنواع مختلفة من مكبرات الصوت للسماح بتركيب يناسب الاحتياجات المختلفة. تتوفر مكبرات صوت من الفريت والنيوديميوم بأحجام مختلفة للتركيبات الداخلية أو الخارجية.

LOUDSPEAKERS  
ALTOPARLANTI  
ALTAVOCES  
HAUT-PARLEURS  
LAUTSPRECHER  
مكبرات الصوت

FM  
ABS / FERRITE MAGNET



LOUDSPEAKER - FM  
COD. 951052

Degree of protection: IP66

FS  
ABS / FERRITE MAGNET



LOUDSPEAKER - FS  
COD. 951053

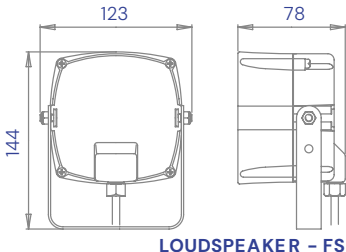
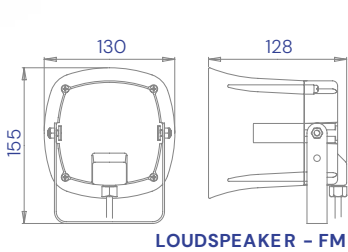
Degree of protection: IP56

| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Nominal power<br>Potenza lavoro<br>Potencia nominal<br>Puissance nominal<br>Betriebleistung<br>قدرة العمل (الاسمية)<br>W | Peak power<br>Potenza di punta<br>Potencia de pico<br>Puissance de crête<br>Maximale Leistung<br>القدرة القصوى<br>W | Impedance<br>Impedenza<br>Impedancia<br>Impédance<br>Inpedanz<br>المعوقة<br>Ohm | Special<br>Force<br>App.<br>& MOQ<br>u. |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------|
| 12<br>24                                                                | 114                                                                                             | 25                                                                                                                       | 40                                                                                                                  | 4                                                                               | <br>8                                   |

|          |     |    |    |   |       |
|----------|-----|----|----|---|-------|
| 12<br>24 | 113 | 25 | 40 | 4 | <br>8 |
|----------|-----|----|----|---|-------|



LOUDSPEAKER



# Loudspeakers Ferrite Magnet

LOUDSPEAKERS  
ALTOPARLANTI  
ALTAVOCES  
HAUT-PARLEURS  
LAUTSPRECHER  
مكبرات الصوت

NSC  
ABS / NEODYMIUM MAGNET  
🚗 🏍️



LOUDSPEAKER -NSC  
COD. 951055

Degree of protection: IP66

NS  
ABS / NEODYMIUM MAGNET  
🚗 🚚



LOUDSPEAKER -NS  
COD. 951056

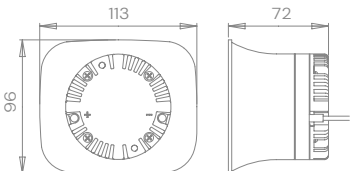
Degree of protection: IP66

ABS  
🚗 🏍️ 🚚 🚛 📦

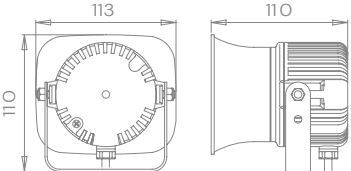


CONNECTION CABLE PS10  
COD. 951057

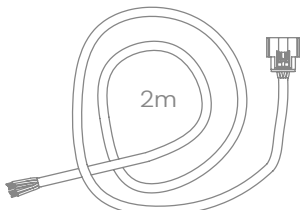
Degree of protection: IP67



LOUDSPEAKER - NS



LOUDSPEAKER - NSC



CONNECTION CABLE PS10

| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Nominal power<br>Potenza lavoro<br>Potencia nominal<br>Puissance nominal<br>Betriebleistung<br>قدرة العمل (الاسمية)<br>W | Peak power<br>Potenza di punta<br>Potencia de pico<br>Puissance de crête<br>Maximale Leistung<br>القدرة القصوى<br>W | Impedance<br>Impedenza<br>Impedancia<br>Impédance<br>Impedanz<br>المعاوقة<br>Ohm | Special<br>Force<br>App.<br>& MOQ<br>u. |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------|
| 12<br>24                                                                | 113                                                                                             | 20                                                                                                                       | 30                                                                                                                  | 4                                                                                | 🔥 * 🛡️<br>8                             |

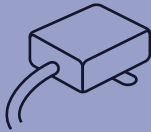
|          |     |    |    |   |             |
|----------|-----|----|----|---|-------------|
| 12<br>24 | 113 | 20 | 30 | 4 | 🔥 * 🛡️<br>4 |
|----------|-----|----|----|---|-------------|

|   |   |   |   |   |             |
|---|---|---|---|---|-------------|
| - | - | - | - | - | 🔥 * 🛡️<br>4 |
|---|---|---|---|---|-------------|

ELECTRONIC MODULE FOR PS10 SYSTEM  
MODULO ELETTRONICO PER SISTEMA PS10  
MÓDULO ELECTRÓNICO PARA SISTEMA PS10  
MODULE ÉLECTRONIQUE POUR SYSTÈME PS10  
ELEKTRONIKMODUL FÜR PS10-SYSTEM  
منبهات صوتية للطوارئ



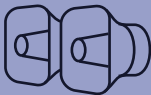
PS10 - FM-AMB-POMP-I  
COD. 951019  
KIT OF MODULE + 2 FM SPEAKER + CABLE



PS10 - FS-AMB-POMP-I  
COD. 951010  
KIT OF MODULE + 2 FS SPEAKER + CABLE



PS10 - NSC-AMB-POMP-I  
COD. 951011  
KIT OF MODULE + 2 NSC SPEAKER + CABLE



PS10 - FM-POL-I  
COD. 951020  
KIT OF MODULE + 2 FM SPEAKER + CABLE

PS10 - FS-POL-I  
COD. 951016  
KIT OF MODULE + 2 FS SPEAKER + CABLE

PS10 - NSC-POL-I  
COD. 951017  
KIT OF MODULE + 2 NSC SPEAKER + CABLE

| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consommation<br>Stromaufnahme<br>استهلاك الطاقة (امبير)<br>A | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Special Force<br>Application<br>& MOQ<br>u. |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------|
| 12<br>24                                                                | 4<br>2                                                                                                | 120                                                                                             | 🔥 * 🛡️<br>4                                 |
| 12<br>24                                                                | 4<br>2                                                                                                | 119                                                                                             | 🔥 * 🛡️<br>4                                 |
| 12<br>24                                                                | 4<br>2                                                                                                | 119                                                                                             | 🔥 * 🛡️<br>8                                 |
| 12<br>24                                                                | 4<br>2                                                                                                | 120                                                                                             | 🛡️<br>4                                     |
| 12<br>24                                                                | 4<br>2                                                                                                | 119                                                                                             | 🛡️<br>4                                     |
| 12<br>24                                                                | 4<br>2                                                                                                | 119                                                                                             | 🛡️<br>4                                     |

TYPE APPROVAL / OMOLOGAZIONE / HOMOLOGACIÓN / HOMOLOGATION / ZULASSUNG / اعتماد  
Reg.10/National homologation if required

EN For the italian market, special kits to integrate offers.

IT Per il mercato italiano, l'offerta si completa con i kit dedicati.

# PS20 System

**EN** Through its powerful and directional sound, the priority system PS20 maximises security and sound localization of emergency vehicles. A pneumatic horn guided by an electronic module for continuous service, that guarantees a high duration.

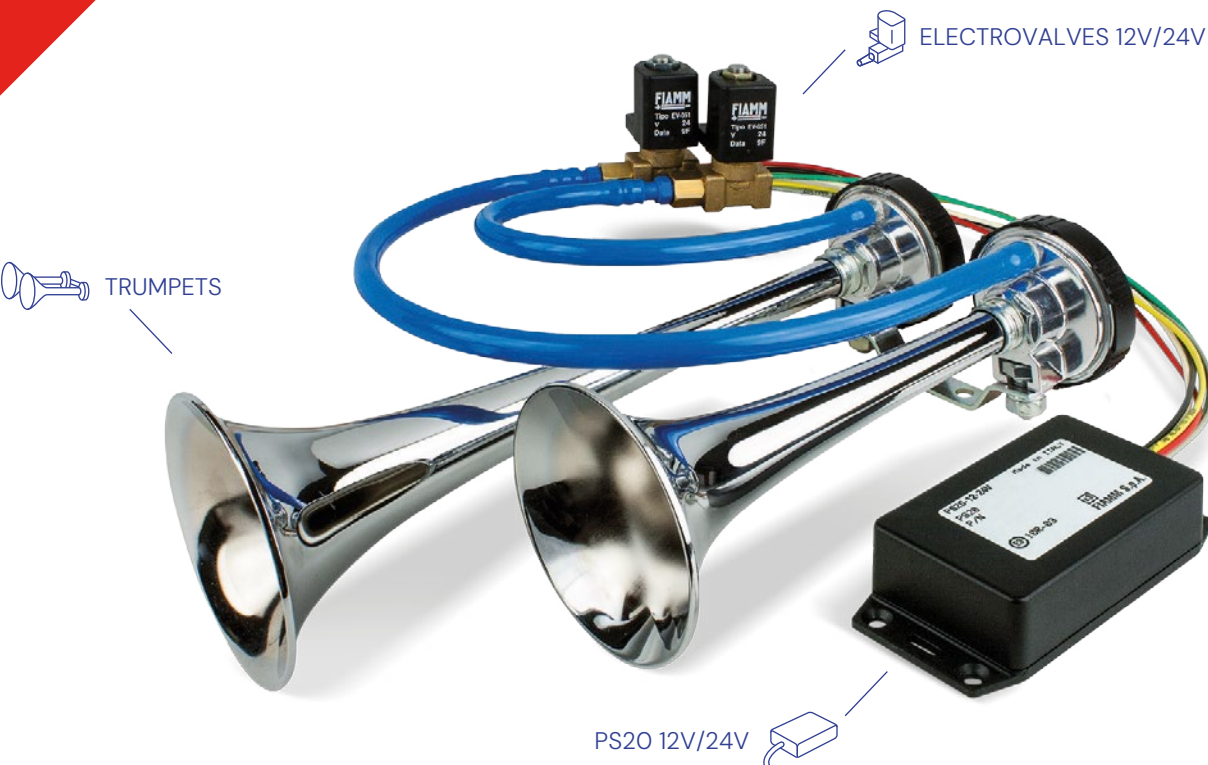
**IT** Il sistema prioritario PS20, dal suono potente e direzionale, massimizza la sicurezza e l'identificazione dei mezzi d'emergenza. Sirena pneumatica pilotata da una centralina elettronica per servizio continuo, che garantisce un'elevata durata

**ES** El sistema prioritario PS20 maximiza la seguridad y la localización del sonido de los vehículos de emergencia. Avisador neumático guiado por un módulo electrónico para servicio continuo, que garantiza una duración elevada.

**FR** Le système prioritaire PS20 maximise la sécurité et la localisation du son des véhicules prioritaires. Il s'agit d'un avertisseur pneumatique guidé par un module électronique pour service continu, qui garantit une durée élevée.

**DE** Das bevorrechtigte System PS20 maximiert durch ihren starken und gerichteten Klang die Sicherheit und die Schalllokalisierung der Notdienstfahrzeuge. Pneumatische, von einem elektronischen Modul geführte Hupe für den Dauerbetrieb mit erhöhter Dauer.

**AR** يعمل النظام الأساسي PS20، بالصوت القوي والاتجاه، على زيادة سلامة سيارات الطوارئ والتعرف عليها إلى أقصى الحدود. صافرة إنذار هوائية يتم التحكم فيها بواسطة وحدة تحكم إلكترونية للخدمة المستمرة، الأمر الذي يضمن فترة خدمة عالية.



PS20 SYSTEM

**Fire Brigades**  
Vigili del fuoco  
Bomberos  
Sapeurs-Pompiers  
Feuerwehr

**Ambulance**  
Ambulanza  
Ambulancia  
Ambulance  
Krankenwagen

**Police Forces**  
Forze dell'ordine  
Fuerzas de Policía  
Forces de Police  
Polizeikräfte

ELECTRONIC MODULE FOR PS20 SYSTEM  
MODULO ELETTRONICO PER SISTEMA PS20  
MÓDULO ELECTRÓNICO PARA SISTEMA PS20  
MODULE ÉLECTRONIQUE POUR SYSTÈME PS20  
ELEKTRONIKMODUL FÜR PS20-SYSTEM  
منبهات صوتية للطوارئ



PS20 - AMB/POMP - I  
COD. 951083

PS20 - HI-LO 24V  
COD. 951080

PS20 - HI-LO 12 V  
COD. 951079

PS20 - EMER - D 12 V  
COD. 951084

KIT OF MODULE + 2 ELECTROVALVES

| Transport                                                                                                                                                                                                                                                         | Country                                                                                                                                                                                                                                                                                                      | Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consommation<br>Stromaufnahme<br>استهلاك الطاقة (أمبير)<br>A | Compressed air source                       | Special Force<br>Application<br>& MOQ<br>u.                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | ITALY<br>                                                                                                                                                                                                                 | 12                                                                      | 1,5                                                                                                   | ON-BOARD AIR SYSTEM<br>DEDICATED COMPRESSOR | <br>4                                                                                                                                                                               |
|          | ITALY<br>                                                                                                                                                                                                                 | 12                                                                      | 1,5                                                                                                   | ON-BOARD AIR SYSTEM<br>DEDICATED COMPRESSOR |  <br>4                                                                                           |
|                                                                                                                                                                                | ITALY<br>                                                                                                                                                                                                                 | 24                                                                      | 0,7                                                                                                   | ON-BOARD AIR SYSTEM<br>DEDICATED COMPRESSOR | <br>4                                                                                                                                                                               |
|    | BELGIUM<br>UK<br>INTERNATIONAL<br>HI-LO<br>   | 24                                                                      | 0,7                                                                                                   | ON-BOARD AIR SYSTEM<br>DEDICATED COMPRESSOR | <br>4                                                                                                                                                                             |
|    | NETHERLANDS<br>UK<br>INTERNATIONAL<br>        | 12                                                                      | 1,5                                                                                                   | ON-BOARD AIR SYSTEM<br>DEDICATED COMPRESSOR |   <br>4 |
|    | AUSTRIA<br>                                                                                                                                                                                                             | 12                                                                      | 1,5                                                                                                   | ON-BOARD AIR SYSTEM<br>DEDICATED COMPRESSOR | <br>4                                                                                                                                                                             |

ELECTRONIC MODULE FOR PS20 SYSTEM  
MODULO ELETTRONICO PER SISTEMA PS20  
MÓDULO ELECTRÓNICO PARA SISTEMA PS20  
MODULE ÉLECTRONIQUE POUR SYSTÈME PS20  
ELEKTRONIKMODUL FÜR PS20-SYSTEM  
منبهات صوتية للطوارئ

PS20  
FLAME RETARDANT  
ABS BRASS  
PS20 – EMER – D 24 V  
COD. 951085



PS20 – FEUER – A  
COD. 951087  
KIT OF MODULE  
+ 3 ELECTROVALVES

PS20 – FEUER – A  
COD. 951088  
KIT OF MODULE  
+ 3 ELECTROVALVES

PS20 – FEUER – A  
COD. 951086

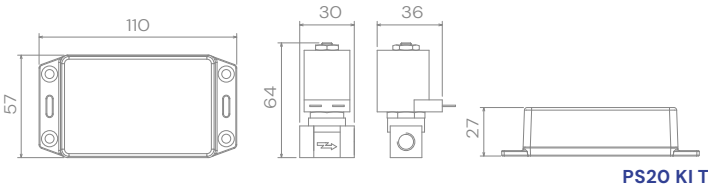
PS20 – EMERGENCY  
NETHERLANDS – 12V  
COD. 951096

PS20 – EMERGENCY  
NETHERLANDS – 24V  
COD. 951097

KIT OF MODULE + 2 ELECTROVALVES

| Transport | Country                    | Voltage<br>Voltage<br>V<br>V<br>Tension<br>Tension<br>Spannung<br>الفولتية | Amp. Draw<br>Assorbimento<br>Amperios<br>Consumption<br>Stromaufnahme<br>استهلاك الطاقة (امبير) | Compressed<br>air source                          | Special Force<br>Application<br>& MOQ |
|-----------|----------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------|
|           | GERMANY<br>SWITZERLAND<br> | 24                                                                         | 0,7                                                                                             | ON-BOARD AIR<br>SYSTEM<br>DEDICATED<br>COMPRESSOR | <br>4                                 |
|           | AUSTRIA<br>                | 12                                                                         | 1,5                                                                                             | DEDICATED<br>COMPRESSOR                           | <br>8                                 |
|           | AUSTRIA<br>                | 24                                                                         | 0,7                                                                                             | DEDICATED<br>COMPRESSOR                           | <br>8                                 |
|           | AUSTRIA<br>                | 24                                                                         | 0,7                                                                                             | ON-BOARD<br>AIR                                   | <br>8                                 |
|           | NETHERLANDS<br>            | 12                                                                         | 1,5                                                                                             | ON-BOARD AIR<br>SYSTEM<br>DEDICATED<br>COMPRESSOR | <br>4                                 |
|           | NETHERLANDS<br>            | 24                                                                         | 0,7                                                                                             | ON-BOARD AIR<br>SYSTEM<br>DEDICATED<br>COMPRESSOR | <br>4                                 |

TYPE APPROVAL / OMOLOGAZIONE / HOMOLOGACIÓN / HOMOLOGATION / ZULASSUNG / اعتماد  
Reg.10/National homologation if required



PS20 KI T

# PS20

SYSTEM CHOICE

- 1

Choose your country
- 2

Choose your special force:

**Fire Brigades**  
Vigili del fuoco  
Bomberos  
Sapeurs-Pompiers  
Feuerwehr

**Ambulance**  
Ambulanza  
Ambulancia  
Ambulance  
Krankenwagen

**Police Forces**  
Forze dell'ordine  
Fuerzas de Policia  
Forces de Police  
Polizeikräfte
- 3

Read the code of your electronic control unit
- 4

Choose your vehicle type (CAR | VAN | TRUCK)
- 5

Read on the left the code of your trumpets



| 1 | Italy                                |                                                       |                                                       | Netherlands                                       |                                                                |                                                                | Belgium                                                        | United Kingdom                                        |                                                   |
|---|--------------------------------------|-------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|
| 2 |                                      |                                                       |                                                       |                                                   |                                                                |                                                                |                                                                |                                                       |                                                   |
| 3 | PS20 - POL - I<br>12V<br>COD. 951081 | PS20 AMB/POMP - I<br>12V<br>COD. 951082               | PS20 AMB/POMP - I<br>24V<br>COD. 951083               | PS20 - HI-LO<br>12V<br>COD. 951079                | PS20 - EMERGENCY<br>NETHERLANDS - 12V<br>COD. 951096           | PS20 - EMERGENCY<br>NETHERLANDS - 24V<br>COD. 951097           | PS20 - HI-LO<br>24V<br>COD. 951080                             | PS20 - HI-LO<br>12V<br>COD. 951079                    | PS20 - HI-LO<br>24V<br>COD. 951080                |
| 4 | TA/2 906-V<br>COD. 920392            | CAR   VAN<br>1 electr. unit<br>+ 1 set of<br>trumpets |                                                       |                                                   |                                                                |                                                                |                                                                |                                                       |                                                   |
| 4 | TA/2 906-C<br>COD. 920393            | CAR   VAN<br>1 electr. unit<br>+ 1 set of<br>trumpets |                                                       |                                                   |                                                                |                                                                |                                                                |                                                       |                                                   |
| 4 | TA/2 VA-V<br>COD. 920395             |                                                       | CAR   VAN<br>1 electr. unit<br>+ 1 set of<br>trumpets | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets |                                                                |                                                                |                                                                |                                                       |                                                   |
| 4 | TA/2 BL-C<br>COD. 920629             |                                                       |                                                       |                                                   |                                                                |                                                                | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets              | CAR   VAN<br>1 electr. unit<br>+ 1 set of<br>trumpets | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets |
| 5 | TA/2 BL-V<br>COD. 920396             |                                                       |                                                       |                                                   |                                                                |                                                                | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets              | CAR   VAN<br>1 electr. unit<br>+ 1 set of<br>trumpets | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets |
| 5 | TA/2 DE-B<br>COD. 920397             |                                                       |                                                       |                                                   |                                                                |                                                                |                                                                |                                                       |                                                   |
| 5 | TA/4 906-C<br>COD. 920394            |                                                       |                                                       |                                                   |                                                                |                                                                |                                                                |                                                       |                                                   |
| 5 | TA/4 NL-C<br>+SPOILER<br>COD. 920647 |                                                       |                                                       |                                                   | CAR   VAN<br>TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets | CAR   VAN<br>TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets | CAR   VAN<br>TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets |                                                       |                                                   |
| 5 | TA/4 906-C<br>AUSTRIA<br>COD. 920649 |                                                       |                                                       |                                                   |                                                                |                                                                |                                                                |                                                       |                                                   |

| Austria<br>=                                          |                                                       |                                                   |                                                   | Germany<br>🇩🇪                                         |                                                   | Switzerland<br>🇨🇭                                       |                                                     | International<br>🌐                                               |                                                   | ✔ = included<br>• = optional |
|-------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------|------------------------------|
| ✳                                                     | 🔥                                                     | 🔥                                                 | 🔥                                                 | 🔥                                                     | 🔥 ✳ 🛡                                             | 🔥                                                       | 🔥 ✳ 🛡                                               | 🔥                                                                | 🔥 ✳ 🛡                                             |                              |
| PS20 EMER - D<br>12V<br>COD. 951084                   | PS20 - FEUER -A<br>12V<br>COD. 951087                 | PS20 - FEUER -A<br>24V<br>COD. 951088             | PS20 - FEUER -A<br>24V<br>COD. 951086             | PS20 EMER - D<br>12V<br>COD. 951084                   | PS20 EMER - D<br>24V<br>COD. 951085               | PS20 EMER - D<br>12V<br>COD. 951084                     | PS20 EMER - D<br>24V<br>COD. 951085                 | PS20 - HI-LO<br>12V<br>COD. 951079                               | PS20 - HI-LO<br>24V<br>COD. 951080                | SPOILER<br>COD. 920618       |
| CAR   VAN<br>1 electr. unit<br>+ 1 set of<br>trumpets |                                                       |                                                   |                                                   | CAR   VAN<br>1 electr. unit<br>+ 1 set of<br>trumpets | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets | CAR   VAN<br>1 electr. unit<br>+ 1 set of<br>trumpets   | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets   | CAR   VAN<br>TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets   | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets | ✔                            |
| CAR   VAN<br>1 electr. unit<br>+ 1 set of<br>trumpets |                                                       |                                                   |                                                   | CAR   VAN<br>1 electr. unit<br>+ 1 set of<br>trumpets | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets | CAR   VAN<br>1 electr. unit +<br>+ 1 set of<br>trumpets | TRUCK<br>1 electr. unit +<br>+ 1 set of<br>trumpets | CAR   VAN<br>TRUCK<br>1 electr. unit +<br>+ 1 set of<br>trumpets | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets | ✔                            |
|                                                       |                                                       |                                                   |                                                   |                                                       |                                                   |                                                         |                                                     |                                                                  |                                                   | ✔                            |
|                                                       |                                                       |                                                   |                                                   |                                                       |                                                   |                                                         |                                                     |                                                                  |                                                   | •                            |
|                                                       |                                                       |                                                   |                                                   |                                                       |                                                   |                                                         |                                                     |                                                                  |                                                   | •                            |
|                                                       | CAR   VAN<br>1 electr. unit<br>+ 1 set of<br>trumpets | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets |                                                       |                                                   |                                                         |                                                     |                                                                  |                                                   | •                            |
|                                                       |                                                       |                                                   |                                                   | CAR   VAN<br>1 electr. unit<br>+ 1 set of<br>trumpets | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets | CAR   VAN<br>1 electr. unit<br>+ 1 set of<br>trumpets   | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets   | CAR   VAN<br>TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets   | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets | ✔                            |
|                                                       |                                                       |                                                   |                                                   |                                                       |                                                   |                                                         |                                                     |                                                                  |                                                   |                              |
|                                                       | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets     | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets | TRUCK<br>1 electr. unit<br>+ 1 set of<br>trumpets |                                                       |                                                   |                                                         |                                                     |                                                                  |                                                   |                              |

# MC4 System

- EN

High power, directional Electropneumatic emergency horn systems to be used as primary signals on temporary exit vehicles or as secondary signals to successfully overcome difficult traffic situations or for dangerous crossroads.
- IT

Sistema di avvisatore elettropneumatico dal suono potente e direzionale utilizzabile come primo avvisatore in mezzi di uscita temporanea o come avvisatore secondario per superare in sicurezza le situazioni di traffico difficili o per gli incroci pericolosi.
- ES

Sistema prioritario electroneumático de sonido potente y direccional para vehículos de salida temporal o utilizable como avisador secundario para superar en seguridad las situaciones de tráfico difíciles o para los cruces más peligrosos.
- FR

Système d'avertisseur électropneumatique, son puissant et directionnel utilisable ponctuellement ou comme avertisseur secondaire pour affronter en toute sécurité les situations de circulation difficiles.
- DE

Elektropneumatische Signaleinrichtung mit starkem und gerichtetem Klang. Als erste Signaleinrichtung in Fahrzeugen, die zeitweise ausfahren, oder als sekundäre Signaleinrichtung für die sichere Überwindung schwieriger Verkehrssituationen oder gefährlicher Kreuzungen einsetzbar.
- AR

يمكن استخدام نظام التنبيه الكهربائي الهوائي مع الصوت القوي والموجه كإشارة أولى في وسائل الإخراج المؤقت أو كإشارة ثانوية للتجاوز بأمان في المواقف المرورية الصعبة أو نقاط التقاء الطرق الخطرة.



- Fire Brigades**  
Vigili del fuoco  
Bomberos  
Sapeurs-Pompiers  
Feuerwehr
- Ambulance**  
Ambulanza  
Ambulancia  
Ambulance  
Krankenwagen
- Police Forces**  
Forze dell'ordine  
Fuerzas de Policía  
Forces de Police  
Polizeikräfte

COMPRESSORS  
COMPRESSORI  
COMPRESORES  
COMPRESSEURS  
GEBLÄSE  
المكابس

- MC4 FDS**  
12V + LUBRICATOR  
COD. 921084
- MC4 FVA**  
12V + LUBRICATOR  
COD. 921077
- MC4 FVA**  
24V + LUBRICATOR  
COD. 921078
- MC4 FALG**  
12V + LUBRICATOR  
COD. 921121
- MC4 FALG**  
24V + LUBRICATOR  
COD. 921122
- MC4 FI**  
24V + LUBRICATOR  
COD. 921124

| Transport | Country                            | Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consummation<br>Stromaufnahme<br>استهلاك الطاقة (امبير)<br>A | Type approval    | Special Force<br>Application<br>& MOQ |
|-----------|------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------|---------------------------------------|
|           |                                    |                                                                         |                                                                                                       |                  | u.                                    |
|           | ITALY<br>                          | 12                                                                      | 17                                                                                                    | NATIONAL/REG. 10 | <br>4                                 |
|           | ITALY<br>                          | 12                                                                      | 17                                                                                                    | NATIONAL/REG. 10 | <br>4                                 |
|           | ITALY<br>                          | 24                                                                      | 8                                                                                                     | NATIONAL/REG. 10 | <br>4                                 |
|           | NETHERLANDS<br>                    | 12                                                                      | 17                                                                                                    | REG. 10 ECE      | <br>4                                 |
|           | NETHERLANDS<br>                    | 24                                                                      | 8                                                                                                     | REG. 10 ECE      | <br>4                                 |
|           | BELGIUM<br>UK<br>INTERNATIONAL<br> | 24                                                                      | 8                                                                                                     | REG. 10 ECE      | <br>4                                 |

COMPRESSORS  
COMPRESSORI  
COMPRESORES  
COMPRESSEURS  
GEBLÄSE  
المكابس

MC4  
STEEL/ALUMINIUM



MC4 FI  
12V + LUBRICATOR  
COD. 921123

MC4 FD  
12V + LUBRICATOR  
COD. 921116

MC4 FA  
12V + LUBRICATOR  
COD. 921118

MC4 FA  
24V + LUBRICATOR  
COD. 921119

MC4 FD  
12V + LUBRICATOR  
COD. 921116

MC4 FD  
24V + LUBRICATOR  
COD. 921117

| Transport | Country                    | Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consommation<br>Stromaufnahme<br>استهلاك الطاقة (امبير)<br>A | Type approval    | Special Force<br>Application<br>& MOQ<br><br>u. |
|-----------|----------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------|
|           | UK<br>INTERNATIONAL<br>    | 12                                                                      | 17                                                                                                    | REG. 10 ECE      | <br>4                                           |
|           | AUSTRIA<br>                | 12                                                                      | 17                                                                                                    | REG. 10 ECE      | <br>4                                           |
|           | AUSTRIA<br>                | 12                                                                      | 17                                                                                                    | REG. 10 ECE      | <br>4                                           |
|           | AUSTRIA<br>                | 24                                                                      | 8                                                                                                     | REG. 10 ECE      | <br>4                                           |
|           | GERMANY<br>SWITZERLAND<br> | 12                                                                      | 17                                                                                                    | NATIONAL/REG. 10 | <br>4                                           |
|           | GERMANY<br>SWITZERLAND<br> | 24                                                                      | 8                                                                                                     | NATIONAL/REG. 10 | <br>4                                           |

OILING IS MANDATORY: PLEASE READ USER MANUAL BEFORE USING THE COMPRESSOR.  
NECESSITÀ DI OLIAURA: PREGASI CONSULTARE IL FOGLIO ISTRUZIONI PRIMA DI UTILIZZARE IL COMPRESSORE.



# MC4

SYSTEM CHOICE

1 Choose your country

2 Choose your special force:

- Fire Brigades**  
Vigili del fuoco  
Bomberos  
Sapeurs-Pompiers  
Feuerwehr
- Ambulance**  
Ambulanza  
Ambulancia  
Ambulance  
Krankenwagen
- Police Forces**  
Forze dell'ordine  
Fuerzas de Policia  
Forces de Police  
Polizeikräfte

3 Read the code of your compressor

4 Choose your vehicle type (CAR | VAN | TRUCK)

5 Read on the left the code of your trumpets

6 Lubricator included in the compressor code



| 1 | Italy                                |                                                                             |                                                     | Netherlands                                         |                                                 | Belgium                                         | United Kingdom                                      |                                                 |
|---|--------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|-------------------------------------------------|
| 2 |                                      | *                                                                           |                                                     |                                                     |                                                 |                                                 | *                                                   |                                                 |
| 3 | MC4 FDS<br>12V<br>COD. 921084        | MC4 FVA<br>12V<br>COD. 921077                                               | MC4 FVA<br>24V<br>COD. 921078                       | MC4 FALG<br>12V<br>COD. 921121                      | MC4 FALG<br>24V<br>COD. 921122                  | MC4 FI 24V<br>COD. 921124                       | MC4 FI 12V<br>COD. 921123                           | MC4 FI 24V<br>COD. 921124                       |
| 4 | TA/2 906-V<br>COD. 920392            | CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets                         |                                                     |                                                     |                                                 |                                                 |                                                     |                                                 |
| 5 | TA/2 906-C<br>COD. 920393            | CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets                         |                                                     |                                                     |                                                 |                                                 |                                                     |                                                 |
| 6 | TA/2 VA-V<br>COD. 920395             |                                                                             | CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets     |                                                 |                                                 |                                                     |                                                 |
|   | TA/2 GA-V<br>COD. 920615             |                                                                             |                                                     | CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets |                                                 |                                                     |                                                 |
|   | TA/2 GB-V<br>COD. 920616             |                                                                             |                                                     | CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets |                                                 |                                                     |                                                 |
|   | TA/2 BL-C<br>COD. 920629             |                                                                             |                                                     |                                                     |                                                 | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets | CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets |
|   | TA/2 BL-V<br>COD. 920396             |                                                                             |                                                     |                                                     |                                                 | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets | CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets |
|   | TA/2 DE-B<br>COD. 920397             |                                                                             |                                                     |                                                     |                                                 |                                                 |                                                     |                                                 |
|   | TA/4 906-C<br>COD. 920394            |                                                                             |                                                     |                                                     |                                                 |                                                 |                                                     |                                                 |
|   | TA/2 LE-V<br>COD. 920400             |                                                                             |                                                     |                                                     |                                                 |                                                 |                                                     |                                                 |
|   | TA/4 906-C<br>AUSTRIA<br>COD. 920649 |                                                                             |                                                     |                                                     |                                                 |                                                 |                                                     |                                                 |
| 6 | LUBRICATOR<br>COD. 920617            | ALWAYS INCLUDED WITH THE COMPRESSOR, IN CASE ALSO AVAILABLE AS A SPARE PART |                                                     |                                                     |                                                 |                                                 |                                                     |                                                 |

| Austria                                             |                                                     |                                                 | Germany                                             |                                                 | Switzerland                                         |                                                 | Spain                                               |                                                 | International                                                |                                                 | ✓ = included<br>• = optional |
|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------|
| *                                                   |                                                     |                                                 | *                                                   |                                                 | *                                                   |                                                 | *                                                   |                                                 | *                                                            |                                                 |                              |
| MC4 FD 12V<br>COD. 921116                           | MC4 FA 12V<br>COD. 921118                           | MC4 FA 24V<br>COD. 921119                       | MC4 FD 12V<br>COD. 921116                           | MC4 FD 24V<br>COD. 921117                       | MC4 FD 12V<br>COD. 921116                           | MC4 FD 24V<br>COD. 921117                       | MC4 FD 12V<br>COD. 921116                           | MC4 FD 24V<br>COD. 921117                       | MC4 FI 12V<br>COD. 921123                                    | MC4 FI 24V<br>COD. 921124                       | SPOILER<br>COD. 920618       |
| CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets |                                                     |                                                 | CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets | CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets |                                                     |                                                 | CAR   VAN<br>TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets | ✓                            |
| CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets |                                                     |                                                 | CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets |                                                     | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets |                                                     |                                                 | CAR   VAN<br>TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets | ✓                            |
|                                                     |                                                     |                                                 |                                                     |                                                 |                                                     |                                                 |                                                     |                                                 |                                                              |                                                 | ✓                            |
|                                                     |                                                     |                                                 |                                                     |                                                 |                                                     |                                                 |                                                     |                                                 |                                                              |                                                 | •                            |
|                                                     |                                                     |                                                 |                                                     |                                                 |                                                     |                                                 |                                                     |                                                 |                                                              |                                                 | •                            |
|                                                     |                                                     |                                                 |                                                     |                                                 |                                                     |                                                 |                                                     |                                                 |                                                              |                                                 | •                            |
|                                                     |                                                     |                                                 |                                                     |                                                 |                                                     |                                                 |                                                     |                                                 |                                                              |                                                 | •                            |
|                                                     | CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets |                                                     |                                                 |                                                     |                                                 |                                                     |                                                 |                                                              |                                                 | •                            |
|                                                     |                                                     |                                                 | CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets |                                                     |                                                 |                                                     |                                                 | CAR   VAN<br>TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets | ✓                            |
|                                                     |                                                     |                                                 |                                                     |                                                 |                                                     |                                                 | CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets |                                                              |                                                 |                              |
|                                                     | CAR   VAN<br>1 compressor<br>+ 1 set of<br>trumpets | TRUCK<br>1 compressor<br>+ 1 set of<br>trumpets |                                                     |                                                 |                                                     |                                                 |                                                     |                                                 |                                                              |                                                 |                              |

# Trumpets

**EN** The trumpets on the MC4 and PS20 Systems, thanks to the chrome and coated versions, are easily installed both inside and outside vehicles. The frequency range covers various national standards. The 4-tone version offers maximum audibility and a pleasant sound.

**IT** Le trombe dei sistemi MC4 e PS20, grazie alle versioni cromate e verniciate si installano facilmente sia all'interno che all'esterno del veicolo. La gamma di frequenze copre le diverse normative nazionali. La versione a 4 toni rappresenta il massimo dell'udibilità e della piacevolezza del suono.

**ES** Las bocinas de los sistemas prioritarios MC4 y PS20, disponibles en versión cromada y pintada, se instalan fácilmente tanto dentro como fuera del vehículo. La gama de frecuencias cubre las diferentes normativas nacionales. La versión de 4 tonos se caracteriza por máxima audibilidad y un sonido agradable.

**FR** Les trompes des systèmes MC4 et PS20 grâce aux versions chromées et peintes s'installent facilement aussi bien à l'intérieur qu'à l'extérieur du véhicule. La gamme de fréquences répond aux différentes normes nationales. La version à 4 trompes et tons représente le maximum d'audibilité et du plaisir du son.

**DE** Die Hörner der MC4- und PS20-Systeme lassen sich dank ihrer Ausführung aus Chrom und Lack problemlos im Innern und außen am Fahrzeug installieren. Der Frequenzbereich deckt die unterschiedlichen nationalen Vorschriften. Die 4-Ton-Version bietet maximale Hörsamkeit und einen angenehmen Klang.

**AR** يتم بسهولة تركيب آلات تنبيه نظامي MC4 و PS20، بفضل النسخ المطلية بالكروم والورنيش داخل السيارة وخارجها. تغطي نطاقات التردد القوانين الوطنية المختلفة. نسخة الأصوات الأربعة تمثل أقصى قدر من القدرة على السماع ولطف الصوت.

TRUMPETS  
TROMBE  
BOCINAS  
TROMPES  
HÖRNER  
آلات التنبيه

TA  
SET OF 2 TRUMPETS  
TA/2 906-V+SPOILER  
COD. 920392



TA/2 906-V+SPOILER  
COD. 920392

TA/2 906-V+SPOILER  
COD. 920392

TA/2 906-C+SPOILER  
COD. 920393

TA/2 906-C+SPOILER  
COD. 920393

TA/2 906-C+SPOILER  
COD. 920393

TA/2 VA-V+SPOILER  
COD. 920395

| Country                                     | Color | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | H<br>mm    | Special Force<br>Application<br>& MOQ<br>u. |
|---------------------------------------------|-------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------|---------------------------------------------|
| ITALY<br>                                   |       | 117                                                                                             | L = 466<br>H = 622                                                          | 286<br>210 | <br>8                                       |
| AUSTRIA<br>                                 |       | 117                                                                                             | L = 466<br>H = 622                                                          | 286<br>210 | <br>8                                       |
| GERMANY<br>SWITZERLAND<br>INTERNATIONAL<br> |       | 117                                                                                             | L = 466<br>H = 622                                                          | 286<br>210 | <br>8                                       |
| ITALY<br>                                   |       | 117                                                                                             | L = 466<br>H = 622                                                          | 286<br>210 | <br>8                                       |
| AUSTRIA<br>                                 |       | 117                                                                                             | L = 466<br>H = 622                                                          | 286<br>210 | <br>8                                       |
| GERMANY<br>SWITZERLAND<br>INTERNATIONAL<br> |       | 117                                                                                             | L = 466<br>H = 622                                                          | 286<br>210 | <br>8                                       |
| ITALY<br>                                   |       | 117                                                                                             | L = 392<br>H = 660                                                          | 329<br>199 | <br>8                                       |

**Fire Brigades**  
Vigili del fuoco  
Bomberos  
Sapeurs-Pompiers  
Feuerwehr

**Ambulance**  
Ambulanza  
Ambulancia  
Ambulance  
Krankenwagen

**Police Forces**  
Forze dell'ordine  
Fuerzas de Policía  
Forces de Police  
Polizeikräfte

TRUMPETS  
TROMBE  
BOCINAS  
TROMPES  
HÖRNER  
آلات التنبيه

TA  
SET OF 2 TRUMPETS



TA/2 GA-V  
COD. 920615

TA/2 GB-V  
COD. 920616

TA/4 NL-C+SPOILER  
COD. 920647

TA/2 BL-C  
COD. 920629

TA/2 BL-C  
COD. 920629

TA/2 BL-V  
COD. 920396

TA/2 BL-V  
COD. 920396

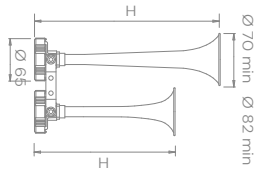
TA/2 DE-B  
COD. 920397

TA/4 906-C AUSTRIA  
COD. 920649  
SET OF 4 TRUMPETS

TA/2 906-C+SPOILER  
COD. 920394

TA/2 LE-V  
COD. 920400

SPOILER TA  
COD. 920618  
ONLY SPOILER



TA

| Country                                     | Color | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | H<br>mm                | Special Force<br>Application<br>& MOQ |
|---------------------------------------------|-------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------|---------------------------------------|
| NETHERLANDS<br>                             |       | 117                                                                                             | L = 494<br>H = 660                                                          | 274<br>199             | <br>8                                 |
| NETHERLANDS<br>                             |       | 117                                                                                             | L = 440<br>H = 587                                                          | 297<br>239             | <br>8                                 |
| NETHERLANDS<br>                             |       | 117                                                                                             | L = 375-400<br>H = 485-500                                                  | 275-283<br>374-389     | <br>3                                 |
| BELGIUM<br>                                 |       | 117                                                                                             | L = 440<br>H = 494                                                          | 297<br>274             | <br>8                                 |
| UK<br>                                      |       | 117                                                                                             | L = 440<br>H = 494                                                          | 297<br>274             | <br>8                                 |
| BELGIUM<br>                                 |       | 117                                                                                             | L = 440<br>H = 494                                                          | 297<br>274             | <br>8                                 |
| UK<br>                                      |       | 117                                                                                             | L = 440<br>H = 494                                                          | 297<br>274             | <br>8                                 |
| AUSTRIA<br>                                 |       | 117                                                                                             | L = 392<br>H = 523                                                          | 392<br>262             | <br>8                                 |
| AUSTRIA<br>                                 |       | 117                                                                                             | L = 375-388<br>H = 511-519                                                  | 332-328<br>261-259     | <br>4                                 |
| GERMANY<br>SWITZERLAND<br>INTERNATIONAL<br> |       | 117                                                                                             | L = 435 - 450<br>H = 580 - 600                                              | 297 - 289<br>223 - 214 | <br>4                                 |
| SPAIN<br>                                   |       | 117                                                                                             | L = 466<br>H = 544                                                          | 286<br>251             | <br>8                                 |
| INTERNATIONAL<br>                           |       | -                                                                                               | -                                                                           | -                      | <br>8                                 |

# Miscellaneous

# COMPRESSORS line

EFFICIENT AND COMPACT COMPRESSORS

- EN

Our compressor line is composed by some of the most efficient and compact compressors on the market. Ranging from the simplest M4, to the most sophisticated MC4+ which can be used also with a lubricator to ensure top performances even in the toughest conditions.
- IT

La nostra gamma di compressori è composta da alcuni dei compressori più efficienti e compatti presenti sul mercato, che vanno dal più semplice M4 al più sofisticato MC4+; possono essere usati anche con un lubrificatore per garantire le massime prestazioni anche nelle condizioni più difficili.
- ES

Nuestra gama de compresores se compone de algunos de los compresores más eficientes y compactos presentes en el mercado, que van del más simple M4 al más sofisticado MC4+; también pueden usarse con un lubricador para garantizar las máximas prestaciones incluso en las condiciones más difíciles.
- FR

Notre gamme de compresseurs comprend certain des compresseurs les plus performants et les plus compacts du marché, allant du M4 le plus simple au MC4+ le plus sophistiqué ; ils peuvent également être utilisés avec un lubrificateur pour garantir des performances maximales même dans les conditions les plus difficiles.
- DE

Unser Angebot an Kompressoren besteht aus einigen der effizientesten und kompaktesten Kompressoren auf dem Markt, vom einfachsten M4 bis zum anspruchsvollsten MC4 +. Sie können auch mit einem Öler verwendet werden, um selbst unter schwierigsten Bedingungen maximale Leistung zu gewährleisten.
- AR

تتكون تشكيلتنا من الضواغط من بعض الضواغط الأكثر فعالية واكتنازاً في السوق، بدءاً من الأكثر بساطة M4 إلى الأكثر تطوراً MC4+؛ يمكن استخدامها أيضاً مع مادة تشحيم لضمان أقصى أداء حتى في الظروف الأكثر صعوبة.

COMPRESSORS  
COMPRESSORI  
COMPRESSORES  
COMPRESSEURS  
VERDICHTER  
المكبس

STEEL/ALLUMINIUM  




**M4 12V**  
COD. 921988

**M4 24V**  
COD. 921989

**MC4 12V**  
COD. 921991

**MC4 24V**  
COD. 921992

STEEL/ALLUMINIUM  




**MC4+12V**  
COD. 921937

**MC4+24V**  
COD. 921938

PLASTIC/METAL  



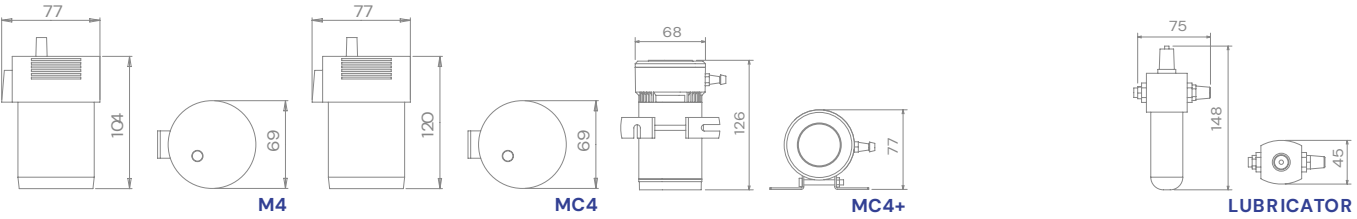

**LUBRICATOR**  
COD. 920617

| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consommation<br>Stromaufnahme<br>استهلاك الطاقة (امبير)<br>A | Pressure<br>Pressione<br>Presión<br>Pression<br>Betriebsdruck<br>الضغط<br>kPa | Air flow<br>Portata d'aria<br>Flujo de aire<br>Débit d'air<br>Luftlieferleistung<br>تدفق الهواء | MOQ<br><br><br><br><br>u. |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------|
| 12                                                                      | 17                                                                                                    | 1,2                                                                           | 80                                                                                              | 4                         |
| 24                                                                      | 8                                                                                                     | 1,2                                                                           | 80                                                                                              | 4                         |
| 12                                                                      | 17                                                                                                    | 1,4                                                                           | 80                                                                                              | 4                         |
| 24                                                                      | 8                                                                                                     | 1,4                                                                           | 80                                                                                              | 4                         |

|    |    |     |    |   |
|----|----|-----|----|---|
| 12 | 17 | 1,9 | 80 | 4 |
| 24 | 8  | 1,9 | 80 | 4 |

|   |   |   |   |   |
|---|---|---|---|---|
| - | - | - | - | 8 |
|---|---|---|---|---|

OILING IS MANDATORY: PLEASE READ USER MANUAL BEFORE USING THE COMPRESSOR.  
NECESSITÀ DI OLIAURA: PREGASI CONSULTARE IL FOGLIO ISTRUZIONI PRIMA DI UTILIZZARE IL COMPRESSORE.



# COMPRESSORS line

EFFICIENT AND COMPACT COMPRESSORS

EN Electropneumatic emergency horns with a clean and powerful sound, equipped with a new and easy installation compressor.

IT Avvisatori elettropneumatici dal suono potente e pulito, dotati di compressore di nuova generazione di semplice installazione.

ES Bocinas electroneumáticas con sonido limpio y potente, equipadas con un compresor de nueva generación de fácil instalación.

FR Le système prioritaire PS20 maximise la sécurité et la localisation du son des véhicules prioritaires. Il s'agit d'un avertisseur pneumatique guidé par un module électronique pour service continu, qui garantit une durée élevée.

DE Das bevorrechtigte System PS20 maximiert durch ihren starken und gerichteten Klang die Sicherheit und die Schalllokalisierung der Notdienstfahrzeuge. Pneumatische, von einem elektronischen Modul geführte Hupe für den Dauerbetrieb mit erhöhter Dauer.

AR منبهات كهربائية هوائية قوية ونظيفة مزودة بمكبس من الجيل الجديد سهل التركيب.

ELECTROPNEUMATIC HORNS  
AVVISATORI ELETTROPNEUMATICI  
AVISADORES ELECTROMAGNÉTICOS  
AVERTISSEURS ÉLECTROPNEUMATIQUES  
ELEKTROPNEUMATISCHE HUPEN  
منبهات كهربائية هوائية

ULTIMATE BLAST  
ABS/STEEL/  
ALLUMINIUM  
ULTIMATE BLAST  
COD. 921939



ULTIMATE BLAST  
COD. 920621

M4  
STEEL/ALLUMINIUM  
M4/TA2  
COD. 921981  
PLASTIC



M4/TA2  
COD. 921982  
PLASTIC

M4  
STEEL/ALLUMINIUM  
M4/TA-BLU  
COD. 921987  
PLASTIC



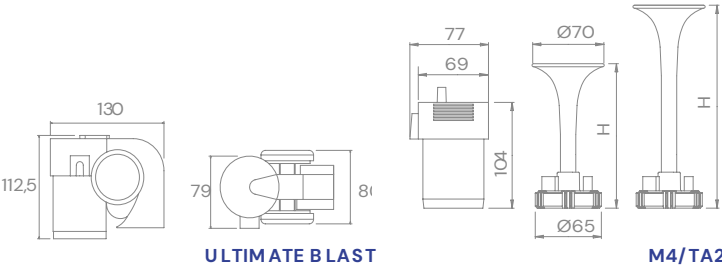
M4/TA-BLU  
COD. 921986  
PLASTIC

| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consommation<br>Stromaufnahme<br>استهلاك الطاقة (أمبير)<br>A | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | Transport | H<br>mm | MOQ<br>u. |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------|---------|-----------|
| 12                                                                      | 19                                                                                                    | 115                                                                                             | L = 530<br>H = 660                                                          |           | -       | 12        |
| 24                                                                      | 8                                                                                                     | 115                                                                                             | L = 530<br>H = 660                                                          |           | -       | 12        |

|    |    |     |                    |  |            |    |
|----|----|-----|--------------------|--|------------|----|
| 12 | 17 | 116 | L = 655<br>H = 828 |  | 203<br>147 | 10 |
| 24 | 8  | 116 | L = 655<br>H = 828 |  | 203<br>147 | 10 |

|    |    |     |                    |  |            |    |
|----|----|-----|--------------------|--|------------|----|
| 12 | 8  | 116 | L = 622<br>H = 788 |  | 212<br>154 | 10 |
| 12 | 17 | 116 | L = 622<br>H = 788 |  | 212<br>154 | 10 |

OILING IS MANDATORY: PLEASE READ USER MANUAL BEFORE USING THE COMPRESSOR.  
NECESSITÀ DI OLIAIURA: PREGASI CONSULTARE IL FOGLIO ISTRUZIONI PRIMA DI UTILIZZARE IL COMPRESSORE.



ELECTROPNEUMATIC HORNS  
AVVISATORI Elettropneumatici  
AVISADORES ELECTROMAGNÉTICOS  
AVERTISSEURS Électropneumatiques  
ELEKTROPNEUMATISCHE HUPEN  
منبهات كهربائية هوائية

M4  
STEEL/ALLUMINIUM



M4/TA3  
COD. 921983  
PLASTIC

MT  
STEEL/ALLUMINIUM

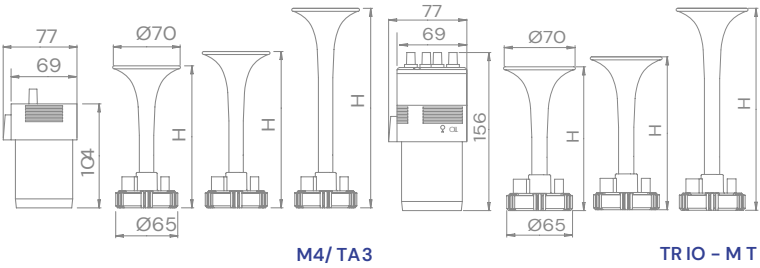


TRIO  
COD. 921967  
PLASTIC

MT/3i  
COD. 921969  
PLASTIC

| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consommation<br>Stromaufnahme<br>استهلاك الطاقة (امبير)<br>A | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz<br>تردد<br>Hz | Transport | H<br>mm           | MOQ<br>u. |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------|-------------------|-----------|
| 12                                                                      | 17                                                                                                    | 116                                                                                             | L = 655<br>M = 768<br>H = 828                                               |           | 203<br>155<br>147 | 10        |
| 12                                                                      | 17                                                                                                    | 116                                                                                             | L = 655<br>M = 768<br>H = 828                                               |           | 203<br>155<br>147 | 10        |
| 12                                                                      | 17                                                                                                    | 116                                                                                             | L = 622<br>M = 695<br>H = 788                                               |           | 212<br>193<br>152 | 10        |

OILING IS MANDATORY: PLEASE READ USER MANUAL BEFORE USING THE COMPRESSOR.  
NECESSITÀ DI OLIAZIONE: PREGASI CONSULTARE IL FOGLIO ISTRUZIONI PRIMA DI UTILIZZARE IL COMPRESSORE.



M4/ TA3

TRIO - M T

# MUSICAL HORNS line

ELECTROPNEUMATIC, RETRO STYLE HORNS FOR A PLEASANT SOUND

**EN** The musical horns line is composed by electro pneumatic horns with a retro style which produce the most popular melodies from movies, music themes or famous songs. These are the perfect choice to stand out of the crowd.

**IT** La linea di avvisatori musicali è composta da trombe elettropneumatiche dallo stile retrò che riproducono le melodie più conosciute nel mondo del cinema e della musica; sono la scelta perfetta per distinguersi dalla massa.

**ES** La línea de avisadores musicales se compone de bocinas electroneumáticas de estilo retro que reproducen las melodías más conocidas en el mundo del cine y de la música; son la elección perfecta para diferenciarse de la masa.

**FR** La ligne d'alarmes musicales est composée de klaxons électro-pneumatiques de style rétro qui reproduisent les mélodies les plus connues du monde du cinéma et de la musique; ils sont le choix parfait pour se démarquer ou restaurer un véhicule d'époque.

**DE** Die Linie der musikalischen Hupen besteht aus elektropneumatischen Hörnern im Retro-Stil, die die bekanntesten Melodien der Film- und der Musikwelt reproduzieren. Sie sind die perfekte Wahl, um sich von der Masse abzuheben.

**AR** خط الأبواق الموسيقية مكون من قرون كهروهوائية على الطراز القديم والتي تقوم بتشغيل الألحان الأكثر شيوعاً في عالم السينما والموسيقى؛ إنها الخيار الأمثل للتميز عن الآخرين.

| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consommation<br>Stromaufnahme<br>استهلاك الطاقة (امبير)<br>A | Decibel<br>Liv. sonoro<br>Nivel sonoro<br>Décibels<br>Schallpegel<br>المستوى الصوتي<br>dB(A) 2m | MOQ<br><br><br><br><br>u. |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------|
| 12                                                                      | 17                                                                                                    | 116                                                                                             | 5                         |
| 12                                                                      | 17                                                                                                    | 116                                                                                             | 5                         |
| 12                                                                      | 17                                                                                                    | 116                                                                                             | 5                         |
| 12                                                                      | 17                                                                                                    | 116                                                                                             | 5                         |
| 12                                                                      | 17                                                                                                    | 116                                                                                             | 5                         |

ELECTROPNEUMATIC HORNS  
AVVISATORI Elettropneumatici  
AVISADORES ELECTROMAGNÉTICOS  
AVERTISSEURS ÉLECTROPNEUMATIQUES  
ELEKTROPNEUMATISCHE HUPEN  
منبهات كهربائية هوائية



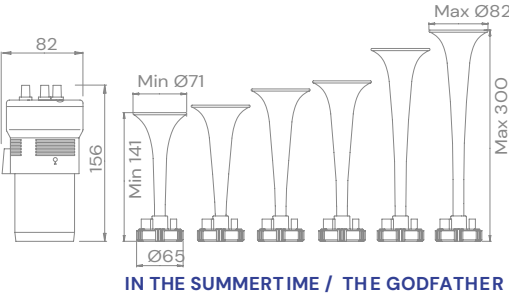
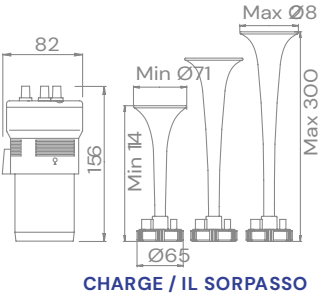
STEEL/ALLUMINIUM  
IN THE SUMMERTIME  
COD. 921979  
PLASTIC



OILING IS MANDATORY: PLEASE READ USER MANUAL BEFORE USING THE COMPRESSOR.  
NECESSITÀ DI OLIAURA: PREGASI CONSULTARE IL FOGLIO ISTRUZIONI PRIMA DI UTILIZZARE IL COMPRESSORE.



MUSICAL HORNS line



## ELECTROPNEUMATIC HORNS

## AVVISATORI ELETTOPNEUMATICI

## AVISADORES ELECTROMAGNÉTICOS

## AVERTISSEURS ÉLECTROPNEUMATIQUES

## ELEKTROPNEUMATISCHE HUPEN

## منبهات كهربائية هوائية

STEEL/ALLUMINIUM

## LA CUCARACHA

COD. 921972

PLASTIC

DIXIE LAND / DUKES OF HAZZARD

COD. 921973

PLASTIC



O' SOLE MIO

COD. 921974

PLASTIC

## OH! SUSANNA

COD. 921975

PLASTIC

RIVER KWAI / LA MARCIA DEL PONTE

COD. 921971

PLASTIC

LA MARSIGLIESE / LA MARSEILLAISE

COD. 921980

PLASTIC

BRASIL

COD. 921978

PLASTIC

[illegible]

**OILING IS MANDATORY: PLEASE READ USER MANUAL BEFORE USING THE COMPRESSOR.**

**NECESSITÀ DI OLIATURA: PREGASI CONSULTARE IL FOGLIO ISTRUZIONI PRIMA DI UTILIZZARE IL COMPRESSORE.**

# MISCELLANEOUS

RELAY



**RELAY 12V**  
COD. 920060Z  
5 PINS

**RELAY 24V**  
COD. 920061Z  
5 PINS

PNEUMATIC HORNS  
AVVISATORI PNEUMATICI  
AVISADORES NEUMÁTICO  
AVERTISSEURS PNEUMATIQUES  
PNEUMATISCHE HUPEN  
منبهات هوائية

METAL

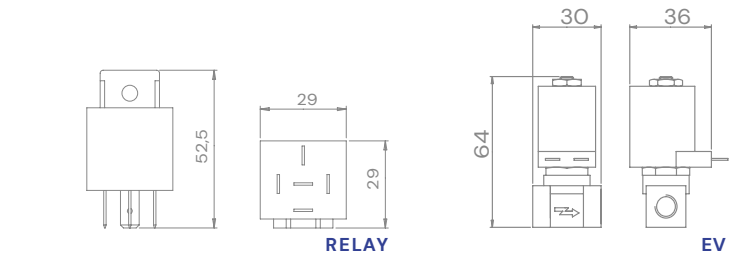


**EV 12V - 2T**  
COD. 920908

**EV 24V - 2T**  
COD. 920907

| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Transport                                                                         |   |   | MOQ |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---|---|-----|
|                                                                         |                                                                                   |   |   | u.  |
| 12                                                                      |  | - | - | 240 |
| 24                                                                      |  | - | - | 240 |

| Voltage<br>Voltaggio<br>Voltaje<br>Tension<br>Spannung<br>الفولتية<br>V | Amp. Draw<br>Assorbimento<br>Amperios<br>Consommation<br>Stromaufnahme<br>استهلاك الطاقة (امبير)<br>A | Pressure<br>Pressione<br>Presión<br>Pression<br>Betriebsdruck<br>الضغط<br>kPa | Suitable for                    | MOQ |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------|-----|
|                                                                         |                                                                                                       |                                                                               |                                 | u.  |
| 12                                                                      | 1,5                                                                                                   | 500<br>1200                                                                   | TA180<br>TA150<br>FULTONE TC2PV | 10  |
| 24                                                                      | 0,7                                                                                                   | 500<br>1200                                                                   | TA180<br>TA150<br>FULTONE TC2PV | 10  |



## Certifications



### Ministerial approvals held for our products (road vehicle horns):

- UN-ECE R28
- UN-ECE R10
- VSCC-Taiwan
- CQC
- Inmetro
- India-ARAI

- EN

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- AR

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